ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

217/782-0610 April 25, 1994

Fansteel, Inc. One Tantalum Place North Chicago, Illinois 60064

Re: Fansteel, Inc. Fansteel, Inc.

NPDES Permit No. ILG250013

Notice of Coverage under the Non-Contact Cooling Water General Permit

Gentlemen:

The Illinois Environmental Protection Agency has reviewed your application and determined that the discharges described therein are appropriately covered by a General NPDES Permit issued by the Agency. A copy of the General Permit is enclosed.

The receiving waters are to be designated as General Use Waters for purposes of this permit. Because your facility has been identified as one of those not regulated in 40 CFR 122.26(b)(14)(1-xi), the requirements to submit stormwater application form 2F in Special Condition 10 and to prepare a Storm Water Pollution Prevention Plan in Special Condition 13 are waived.

The Permit includes discharge limitations and monitoring and reporting requirements. Failure to meet any portion of the permit could result in civil and/or criminal penalties. The Agency is ready and willing to assist you in interpreting any of the conditions of the Permit as they relate specifically to your discharge.

The Permit is applied to your discharge effective on the date of this letter. You have the right to appeal the Agency's decision to cover your discharge by the General Permit to the Illinois Pollution Control Board within a 30 day period following the date of this letter.

Should you have any questions concerning the Permit, please contact Richard E. Pinneo at the telephone number indicated above.

Very truly yours,

y sound

Thomas G. McSwiggin, P.E/ Manager, Permit Section

Division of Water Pollution Control

TGM:SFN:REP:rlc/0353w,42

Enclosure: General Permit cc: Records

CAS

Maywood Region

FANSTEEL

EPA Region 5 Records Ctr.

General NPOES Permit No. ILG250013

Illinois Environmental Protection Agency Division of Water Pollution Control 2200 Churchill Road P.O. Box 19276 Springfield, Illinois 52794-9276

MATIONAL FOLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) Permit

Expiration Date: July 1, 1998

Issue Date: February 15, 1994 Effective Date: February 15, 1994

Discharge authorized by this General Permit: In compliance with the provisions of the Illinois Environmental Protection Act, the Illinois Pollution Control Board (35 Ill. Adm. Code. Subtitle C. Chapter 1), and the Clean Water Act, the following discharges may be authorized by this permit, in accordance with the conditions and attachments herein:

Discharges of noncontact cooling water, noncontact cooling water mixed with stormwater, or noncontact cooling water and separate discharges of stormwater.

Receiving Waters: Discharges may be authorized to any surface water of the State, or to any storm sewer tributary to such surface water.

To receive authorization to discharge under this general permit, a facility operator must submit the proper application forms to the Illinois Environmental Protection Agency. Authorization, if granted, will be by letter and include a copy of this permit.

Thomas G. McSwiggin. P.E. Manager, Permit Section

Division of Water Pollution Control

General NPDES Permit No. ILG250013

Effluent Limitations and Monitoring

From the effective date of this permit until the expiration date, the discharge(s) shall be monitored and limited at all times as follows:

	CONCENTRATION	t		
PARAMETER	30 DAY AVG.	DAILY MAX.	SAMPLE FREQUENCY	SAMPLE TYPE
Flow (MGD)			Month1y	Single Reading
Temperature	See Special Conditions	2, 3, and 4	Monthly	Single Reading
Total Residual	See Special Condition	6	Week Ty*	Grab*
Chlorine				

*See Special Condition 5

NPDES Permit No. ILG250013

Special Conditions

SPECIAL CONDITION! Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge(s), but proof to entry into the receiving stream. Or into a storm sewer tributary to the receiving stream. Sampling must occur during normal plant operations.

<u>SPECIAL CONDITION 2.</u> Discharge of noncontact cooling water from this facility must not alone or in combination with other sources cause the receiving stream to violate the following thermal limitations at the edge of the mixing zone which is defined by 35 III. Adm. Code 302.102. as amended:

- A. Maximum temperature rise above natural temperature must not exceed 5°F (2.8°C).
- B. Water temperature at representative locations in the main river shall not exceed the maximumlimits in the following table during more than one percent of the hours in the 12-month period enging with any month. Moreover, at no time shall the water temperature at such locations exceed the maximum limits in the following table by more than 3°F (1.7°C). (Main river temperatures are temperatures of those portions of the river essentially similar to and following the same thermal regime as the temperatures of the main flow of the river.)
 - 1. For discharges to the Mississippi River between the Wisconsin border and the Rock River:

	≥an.	<u>:eb.</u>	485.	ADT.	May	june	Jula	TAGE	Sept.	<u>Oct.</u>	lov.	Dec.
οè	45	45	57	6 8	78	85	86	86	85	75	6 5	52
٥C	7	7	14	20	26	29	30	30	2 9	24	18	11

For discharges to the Mississippi River between the Rock River and the lowa/Missouri border:

	Jan.	<u>feb.</u>	Mari	ADP.	YEY	inus	July	Aug.	Sept.	Oct.	Nov.	Dec.
0F	45	45	57	58	78	8 5	36	86	85	7 5	6 5	5 2
٥c	7	7	14	20	2 5	29	30	3 0	2 9	24	18	11

 For discharges to the Mississippi River between the Iowa/Missouri border and the Alton Lock and Dam:

	·an.	عف	485.	<u>-or</u>	∡ax	vine	Jula	700°	<u>Sept.</u>	2ct.	Nov.	Dec.
)£	÷5	- 5	57	5 8	-8	36	3 8	88	3 6	75	5 5	52
οĈ	•	•	14	20	25	30	31	31	2 9	24	18	11

4. For discharges to the Mississippi River between the Alton Lock and Dam and the Ohio River:

	1 a 0>	<u>-•b.</u>	Yar.	YDT.	"ay	une	July	Aug.	<u>Sept.</u>	Oct.	Nov.	Dec.
oF	50	50	5 0	70	30	37	89	89	87	7 8	70	57
٥C	.0	.0	16	21	27	31	32	3 2	31	26	21	14

5. For discharges to the Wabash River:

	<u>:an.</u>	ęb.	<u> ar.</u>	ADP.	ABA	June	July	Aug.	<u>Sept.</u>	<u>)ct.</u>	404.	Dec.
٥Ł	50	50	5 0	-0	30	90	3 0	90	30	78	-0	57
٥Ĉ	. 0	٠.	·6	21	27	3 2	3 2	3 2	3 2	2 6	21	14

5. For discharges to the Ohio River:

	jan.	-eb.	Mar.	÷or.	Yay	iune	Jula	Aug.	Sept.	9ct.	NOV.	Dec.
0 F	50	59	50	70	0 E	37	8 9	8 9	87	7 8	70	57
٥٥	· ŋ	.0	16	21	27	31	3 2	3 2	31	26	21	14

NPDES Permit No. ILG250013

Special Conditions

7. For discharges to all other waters except take Michigan and secondary contact waters:

	lan.	€eb.	ar.	Apr.	YEY	une	<u>July</u>	Aug.	<u>Sept.</u>	Qct.	<u> 10v.</u>	Dec.
٥ŧ	5 0	50	50	30	30	3 0	90	30	90	30	9 0	6 0
٥C	:6	16	· 6	32	32	32	32	3 2	3 2	32	3 2	16

<u>SPECIAL CONDITION 3.</u> For discharges to Lake Michigan, the following conditions shall be met outside a mixing zone which shall be no greater than a circle with a radius of 1000 feet or an equal fixed area of simple form:

- A. There shall be no abnormal temperature changes that may affect aquatic life.
- B. The normal daily and seasonal temperature fluctuations that existed before the addition of heat shall be maintained.
- C. The maximum temperature rise at any time above natural temperatures shall not exceed 1.7°C (3°F). In addition, the water temperature shall not exceed the maximum limits indicated in the following table:

	Jan.	<u></u>	Yar.	Apr.	ASA	June	July	Aug.	Sept.	Oct.	NOV.	Dec.
0F	15	15	15	5 5	50	70	80	80	80	6 5	60	50
°C	7	7	7	13	· 6	21	27	27	27	18	16	10

- D. Neither the oottom, the snore, the hypolimnion, nor the thermocline shall be affected by any heated effluent.
- E. No heated effluent shall affect spawning grounds or fish migration routes.
- F. Discharge structures small be so designed as to maximize short-term mixing and thus to reduce the area significantly raised in temperature.
- G. No discharge small exceed ambient temperatures by more than 110C (200F).
- H. Heated effluents from more than one source shall not interact.
- I. All reasonable steps small be taken to reduce the number of organisms drawn into or against the intakes.
- 3. Cleaning of condensers shall be accomplished by mechanical devices. If chemicals must be used to supplement mechanical devices, the concentration at the point of discharge shall not exceed the 96-hour The for fresh water organisms.

<u>SPECIAL CONDITION 4.</u> For discharges to secondary contact waters, stream temperatures shall not exceed 93%F (34%C) more than 5 percent of the time, or 100°F (37.8°C) at the edge of the mixing zone defined by 35 III. Adm. Code 302.102.

Secondary contact waters consist of the Chicago Sanitary and Shio Canal, the Calumet-Sag Channel, the Little Calumet River from its junction with the Grand Calumet River to the Calumet-Sag Channel, the Grand Calumet River, the Calumet River except the 6.8 mile segment extending from the O'Brien Locks and Dam to Lake Michigan. Lake Calumet, the South Branch of the Chicago River, the North Branch of the Chicago River from its confluence with the North Shore Channel to its confluence with the South Branch, the Des Plaines River from its confluence with the Chicago Sanitary and Shio Canal to the Interstate 55 bridge, and the North Shore Channel excluding the segment extending from the North Side Sewage Treatment Works to Lake Michigan.

SPECIAL CONDITION 5. Monitoring for total residual chlorine is required only under the following conditions:

- A. The discharge of noncontact cooling water consists of chlorinated potable water, and dechlorination is required to meet the total residual chlorine limit specified under Special Condition 6: or
- Chlorine is used as a chemical additive to the cooling water system for antifouling purposes.

Special Conditions

All samples for total residual chlorine shall be analyzed by an applicable method contained in 40 CFR 136, equivalent in accuracy to low-level amperometric titration. Any analytical variability of the method used shall be considered when determining the accuracy and precision of the results obtained.

SPECIAL INDITION 6. Discharge of noncontact cooling water from the facility must not exceed 0.05 mg/l total residual chlorine as a daily maximum concentration limit. The permittee shall achieve compliance with the 0.05 mg/l total residual chlorine limit as soon as possible, but no later than two years following notification of coverage under this general permit. The permittee shall construct dechlorination equipment, or undertake alternative means of compliance, in accordance with the following compliance schedule. Alternative means of compliance may include, among other things, providing documentation to the Agency that the 0.05 mg/l total residual chlorine limit is being achieved without dechlorination.

Compliance Schedule

Compliance Date <u>Item</u> i. Complete plans and specifications. 6 months from notification of coverage under this general permit if appropriate Obtain a permit for construction, 12 months from notification of coverage under this general permit if appropriate 15 months from notification of coverage 3. Submit an interim status report under this general permit 22 months from notification of coverage under 4. Complete construction. if appropriate this general permit 24 months from notification of coverage under 5. Achieve compiliance on or before this general permit

The interim status report required under Item 3 of the Compliance Schedule small be submitted to the Agency at the address listed under Special Condition 14.

SPECIAL CONDITION 7. Discharges authorized under this general permit are limited to noncontact cooling water, or noncontact cooling water and stormwater, free from process or other wastewater discharges, and free from chemical additives other than chlorine. In the event that the permittee shall require the use of water treatment chemicals, other than chlorine, the permittee shall notify the Agency in writing in accordance with the Standard Conditions, Attachment H. The Agency may require the permittee to apply for and obtain an individual NPDES permit, pursuant to Special Condition 9 of this general permit.

SPECIAL TONDITION 8. Discharges of condenser cooling water from steam electric generating stations, or facilities regulated by 35 III. Adm. Code 304.222 for intermittent discharges of total residual chlorine resulting from usage for antifouling purposes related to the operation of condensers and cooling systems, are not authorized by this general permit. Intermittent usage is restricted to a maximum of two hours per day per condenser or cooling system unit.

SPECIAL CONDITION 9. Requiring an individual permit or an alternative general permit.

a. The Agency may require any person authorized by this permit to apply for and obtain either an individual NPOES permit or an alternative NPOES general permit. Any interested person may petition the Agency to take action under this paragraph. The Agency may require any owner or operator authorized to discharge under this permit to apply for an individual NPOES permit only if the owner or operator has been notified in writing that a permit application is required. This notice shall include a brief statement of the reasons for this decision, an application form, a statement setting a deadline for the owner or operator to file the application, and a statement that on the effective date of the individual NPOES permit or the alternative general permit as it applies to the individual permittee, coverage under this general permit shall automatically terminate. The Agency may grant additional time to submit the application upon request of the applicant. If an owner or operator fails to submit in a timely manner an individual NPOES permit application required by the Agency under this paragraph, then the applicability of this permit to the individual NPOES permittee is automatically terminated at the end of the day specified for application submittal.

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Special Conditions

- b. Any owner or operator authorized by this permit may request to be excluded from the coverage of this permit by applying for an individual permit. The owner or operator shall submit an individual application with reasons supporting the request. In accordance with the requirements of 40 CFR 122.21. In the Agency. The request shall be granted by issuing of an individual permit or an alternative general permit of the reasons cited by the owner or operator are adequate to support the request.
- c. When an individual NPDES permit is issued to an owner or operator otherwise subject to this permit, or the owner or operator is approved for coverage under an alternative NPDES general permit, the applicability of this permit to the individual NPDES permittee is automatically terminated on the issue date of the individual permit or the date of approval for coverage under the alternative general permit, whichever the case may be. When an individual NPDES permit is denied to an owner or operator otherwise subject to this permit, or the owner or operator is denied coverage under an alternative NPDES general permit the applicability of this permit to the individual NPDES permittee is automatically terminated on the date of such denial, unless otherwise specified by the Agency.

<u>SPECIAL CONDITION 10.</u> To receive authorization to discharge under this general permit, applicants must complete and submit Application forms 1 and 2E for new or existing discharges of noncontact cooling water, or Application forms 1, 2E and 2F for new or existing discharges of noncontact cooling water and stormwater.

<u>SPECIAL CONDITION 11.</u> Notice of coverage under this general permit does not relieve the permittee of the responsibility for any notifications or approvals which may be required by local authorities.

SPECIAL CONDITION 12. Discharges to sanitary or combined sewers are prohibited unless the appropriate State and local construction permits or authorizations are obtained.

SPECIAL CONDITION 13.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

The following is applicable only to discharges of stormwater, or stormwater mixed with noncontact cooling water.

- A. A storm water pollution prevention plan shall be developed by the permittee for the storm water associated with industrial activity at this (actility. The plan shall identify potential sources of collution which may be expected to affect the quality of storm water discharges associated with the industrial activity at the facility. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit.
- 3. The plan small be completed within 180 days of notification of coverage under this general permit. Plans shall provide for compliance with the terms of the plan within 365 days of notification of coverage under this general permit. The owner or operator of the facility shall make a copy of the plan available to the Agency at any reasonable time upon request.
- The permittee may be notified by the Agency at any time that the plan does not meet the requirements of this condition. After such notification, the permittee shall make changes to the plan and shall submit a written certification that the requested changes have been made. Unless otherwise provided, the permittee shall have 30 days after such notification to make the changes.
- The discharger shall amend the dian whenever there is a change in construction, operation, or maintenance which may affect the discharge of significant quantities of pollutants to the waters of the State or if a facility inspection required by paragraph G of this condition indicates that an amendment is needed. The plan should also be amended if the discharger is in violation of any conditions of this permit, or has not achieved the general injective of controlling collutants in storm water discharges. Amendments to the plan shall be provided to the Agency or review upon request.
- 5. The plan shall provide a description of potential sources which may be expected to add significant quantities of pollutants to storm water discharges, or which may result in non-storm water discharges from storm water outfalls at the facility. The plan shall include, at a minimum, the following items:

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Special Conditions

- 1. A topographic map extending one-quarter mile beyond the property boundaries of the facility, showing: the facility, surface water bodies, wells (including injection wells), seepage pits, infiltration ponds, and the discharge points where the facility's storm water discharges to a municipal storm drain system or other water body. The requirements of this paragraph may be included on the site map if appropriate.
- 2. 4 site map showing:
 - The storm water conveyance and discharge structures;
 - ii. An outline of the storm water drainage areas for each storm water discharge point:
 - iii. Paved areas and buildings;
 - iv. Areas used for outdoor manufacturing, storage, or disposal of significant materials, including activities that generate significant quantities of dust or particulates.
 - Location of existing storm water structural control measures (dikes, coverings, setention facilities, etc.);
 - 21. Surface water locations and/or municipal storm drain locations
 - vii. Areas of existing and potential soil erosion:
 - viii. Vehicle service areas:
 - rx. Material loading, Unicading, and access areas,
- 3. a marrative description of the following:
 - The nature of the industrial activities conducted at the site, including a description of significant materials that are treated, stored or disposed of in a manner to allow exposure to storm water;
 - Materials, equipment, and vehicle management practices employed to minimize contact of significant materials with storm water discharges;
 - Existing structural and non-structural control measures to reduce pollutants in storm water discharges;
 - industrial storm water discharge treatment facilities:
 - Yethods of goste storage and disposal of significant materials:
- 4. a list of the types of collutants that have a reasonable potential to be present in storm water discharges in significant quantities.
- 5. In estimate of the size of the facility in acres or square feet, and the percent of the facility that has impervious areas such as pavement or buildings.
- 4 summary of existing sampling data describing pollutants in storm water dischardes.
- The pian small describe the storm water management controls which will be implemented by the facility. The appropriate controls small reflect identified existing and potential sources of pollutants at the facility. The description of the storm water management controls small include:
 - Storm water Pollution Prevention Personnel Identification by job titles of the individuals who are responsible for developing. Implementing, and revising the plan.
 - Preventive Maintenance Procedures for inspection and maintenance or storm water conveyance system devices such as oil/water separators, catch basins, etc., and inspection and testing of plant equipment and systems that could fail and result in discharges of pollutants to storm water.
 - 3. Good Housekeeping Good housekeeping requires the maintenance of clean, progrity facility areas that discharge storm water. Material handling areas shall be inspected and cleaned to reduce the potential for pollutants to enter the storm water convevance system.

Special Conditions

- 4. Spill Prevention and Response Identification of areas where significant materials can spill into or otherwise enter the storm water conveyance systems and their accompanying arainage points. Specific material handling procedures, storage requirements, spill clean up equipment and procedures should be identified, as appropriate. Internal notification procedures for spills of significant materials should be established.
- 5. Storm water Management Practices Storm water management practices are practices other than those which control the source of pollutants. They include measures such as installing oil and grit separators, diverting storm water into retention pasins, etc. Based on assessment of the potential of various sources to contribute pollutants, measures to remove pollutants from storm water discharge shall be implemented. In developing the plan, the following management practices shall be considered:
 - Containment Storage within berms or other secondary containment devices to prevent leaks and spills from entering storm water runoff;
 - ii. 3il & Grease Separation 0il/water separators, booms, skimmers or other methods to minimize oil contaminated storm water discharges;
 - iii. Debris & Sediment Control Screens, booms, sediment ponds or other methods to reduce debris and sediment in storm water discharges;
 - -v. Faste Chemical Disposal ~ Haste chemicals such as antifreeze, degreasers and used oils shall be recycled or disposed of in an approved manner and in a way which prevents them from entering storm water discharges.
 - Storm Water Diversion Storm water diversion away from materials manufacturing, storage and other areas of potential storm water contamination;
 - vi. Covered Storage or Manufacturing Areas Covered fueling operations, materials manufacturing and storage areas to prevent contact with storm water.
- Sediment and Erosion Prevention The plan shall identify areas which due to topography, activities, or other factors, have a high potential for significant soil erosion and describe measures to limit erosion.
- 7. Employee Training Employee training programs shall inform personnel at all levels of responsibility of the components and goals of the storm water pollution control plan. Training should address topics such as spill response, good housekeeping and material management practices. The plan shall identify periodic dates for such training.
- 3. Inspection Procedures Qualified plant personnel shall be identified to inspect resignated equipment and plant areas. A tracking or follow-up procedure shall be used to ensure appropriate response has been taken in response to an inspection. Inspections and maintenance activities shall be occumented and recorded.
- 5. The permittee shall conduct an annual facility inspection to verify that all elements of the plan, including the site map, potential pollutant sources, and structural and non-structural controls to reduce pollutants in industrial storm water discharges are accurate. Observations that require a response and the appropriate response to the observation shall be retained as part of the plan. Records documenting significant observations made during the site inspection shall be submitted to the Agency in accordance with the reporting requirements of this permit.
- H. This plan should briefly describe the appropriate elements of other program requirements, including Spill Prevention Control and Countermeasures (SPCC) plans required under Section 311 of the CHA and the regulations promulgated thereunder, and Best Management Programs under 40 CFR 125.100.
- The plan is considered a report that shall be available to the public under Section 308(b) of the CMA. The permittee may claim portions of the plan as confidential business impormation, including any portion describing facility security measures.
- J. The plan small include the signature and title of the person responsible for preparation of the plan and include the date of initial preparation and each amendment thereto.
- K. The facility shall supmit an annual inspection report to the Illinois Environmental Protection Agency. The report shall include results of the annual facility inspection which is required by Part G of the Storm water Pollution Prevention Plan of this permit. The report shall also include occumentation of any event (spill, treatment unit malfunction, etc.) which would require an inspection. Casults of the inspection, and any subsequent corrective maintenance.

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Special Conditions

REPORTING

- The first report shall contain information gathered during the one year time period beginning with the effective date of coverage under this permit and shall be submitted no later than 60 days after this one year period has expired. Each subsequent report shall contain the previous year's information and shall be submitted no later than one year after the previous year's report was due.
- M. Annual inspection reports shall be mailed to the following address:

Illinois Environmental Protection Agency Division of Water Pollution Control Compliance Assurance Section Annual Inspection Report 2200 Churchill Road P.O. Box 19276 Springfield, Illinois 52794—9276

N. If the factifity performs inspections more frequently than required by this permit, the results shall be included as additional information in the annual report.

SPECIAL CONDITION 14. The permittee small record monitoring results on Discharge Monitoring Report forms using one such form for each discharge each month. The completed Discharge Manitoring Report form shall be submitted monthly to IEPA, no later than the 15th of the following month, unless otherwise specified by the Agency, to the following address:

Illinois Environmental Protection Agency Division of Water Pollution Control Compliance Assurance Section 2200 Churchill Road Post Office Box 19276 Springfield, Illinois 62794—9276

flow shall be reported on the Discharge Monitoring Reports as a monthly average value.

SPECIAL CONDITION 15. Noncontact cooling water means water used to reduce temperature which does not come into direct contact with any raw material, intermediate product, waste product (other than heat), or finished product.

TGM: SB:d1s/3117r/sp

ATTACHMENT H

Stangers Conditions

De Handstone

Act means the dines Environment Protection Act. Ch. 111-1-2 III Rev. Stat., Sec. 1001-1053 as American

Agency means the flance Emvioramental Protection Agency

Sears means the filmous Folkston Control Scars

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Clean Water Act Iformary reterred to as the Federal Water Follution Control Act) means. Fub. L. 92-500, as amongs, 13 U.S.C. 1251 of see

NPDES Nettonia Pollutare Oscherge Elimination Systemi means the national program for studie, modificing, reviewing and resistance, seminating, monitoring and enterting parmits and imposing and surfacing programment requirements, under Sections 307, 402, 318 and 405 of the Claim Water Act.

USEPA means the United States Environmental Protection Agency

Daily Discharge means the discharge of a poliutant measured during a catendar day or only 24-hour parses that reseased represents the catendar day for ourseess of sampling for poliutanes with transcent degreesed in units of mess, the "daily discharge is catculated as the stolet mess of the poliutant descharges ever the day for poliutants with timitations empressed in other units of measurements, the idealy discharge is catculated as the average measurement of the published over the day.

Meximum Carly Discharge Larestation issue meterium means the highest offered is day discharge.

Average Manuter Olesharge Limitation (30 day average means the highest allowable average of daily decharges over a calendar matter calculated as the sum of all daily desharges measured along a calendar month divided by the number of daily discharges measured during that month

Average Wooder Discharge Limitation 17 Gar average means the highest adownous average or dain excharges over a catendar ween catculated as the sum of all dain discharges means divided by the number of state encharges means divided by the number of state encharges measured during that weeks.

Book Management Processes (BMPs) means schedules of activities, prohibitions of practices, manuscance processes, and either management process to breven or resuce the pollution of waters of me State BMPs also include treatment resumments, operating processures, and processes to consist panel site runoff todage or tests, studge or wester deposed, or granage from the metatinal storage.

Alliquet means a sample of specified volume used to make up a lotal composes sample

Grab Sample means an individual sample of all tests 100 millihers collected at a randomivseacced time ever a contre not exceeding 15 millions.

24 Hour Companie Sample means a combination of at least 6 sample abouts of at least 100 measure, colocise at benedic intervals during the operating hours of a facility ever a 24-hour period.

8 Neur Compound Sample makes a compound of at least 3 sample abduots of at least 100 middlers, colocide at person; intervals during the operating hours of a facility over an 8-hour person.

Flow Preservance Commission Semple means a combination of sample Mesons of at test 100 melature coasting of paragic instruses such that eather the time interest between each sequent or the valuable of section assured to proportional to enter the time at the time of samples or the table straight flow since the coasting of the provide industry.

- (1) Dirty to commer. The permission must compressed the decimations of this permit Any permit necessarybance constitutes a visiones of the Act and is growns for induced necessary permitsions, revealed and restricted on the decimal of a permit network operation. The permitties shall compress with efficient standards or prohibitions established under Section 307(a) of the Cition White Act for read polisheds within the same provided in the requirement that readable to incorporate the requirement. In or in the portriol has not yet been registed to incorporate the requirement.
- (2) Duty to recent. If the permittee wishes to constitute on activity regulated by this permit offer me experition date of this permit, the permittee must apply for and patter or new permit. If the germittee submitte a preparamentation as required by the Agency ne lear than 180 days prior to the expression date, this permit shall country that countries in full force and offect until the first Agency decision on the application.
- (4) Duty to invegere. The parmittee shall take all reasonable stees to minimize or present any decharge in victobals of this permit which has a reasonable his blood of advantally effecting flumes neath or the environment.
- (5) Proper approvam and requiremence. The permitted shall all terms properly opening and maintain all faceties and systems of treatment and control land visited appurturences) which are installed or visit by the permitted to achieve companies with the companies of this permit Proper operation are maintained in recides officeror performance, accounted temporary apparatus operating and

- 6) Permit actions: This permit may be invalid involved and remissed, or terminated for cause by the Agency sursuant to 40 CFR 122 82. The taing of a requiset by the permittee for a permit invadescence, reviscence non-contention, or termination, or a noblication of planned changes or anisoperior noncompliance, does not stay any permit condition.
- (7) Preserty rights. This permit does not convey any producty rights of envisors, or any excusive privilege.
- 81 Outy to provide information. The derivines and furnish to the Agency within a resonable time, any information which the Agency may request to determine whether cause exists for modifying, revesting and resource, or terminating this permit, or to determine compliance with the parent. The permittee analiates furnish to the Agency, upon request, copies of records required to be itself by mis permit.
- 191 Inspection and every. The partitions shall allow an authorized representative of the Agency, upon the presentation of credentess and other opcuments as may be required by lew. 10
 - (a) Enter upon the permutes a premise, where a requested facility or activity is located or conducted, or where receipts must be last under the conditions of this permit.
 - This Have access to and copy, at reasonable times, any records that must be kept under the conditions of this parties.
 - ici inspect al reasonable times any facilities, equipment finducing monitoring and commit equipment) practices, or operations required or requires under this permit, and
 - (d) Sample or moreour at resources sines, for the purpose of assuring parmet compliance, or as otherwise sustanzed by the ACL any substances or parameters at any location.
- 101 Manutaring and receres
 - al Samples and measurements taken for the purpose of monitoring shed be representative at the monitorial activity.
 - The permittee shall retain records of all monitoring information, including all calibration and monitorings records, and all original stree chart recordings for constitute monitoring instrumentation, copies of all recent required for this permit, and recent of all data used to constitute the application for this permit, for a sense of at least 3 years from the data of this permit, measurement, report or sometimes. This period may be extended by request of the Agency at the area.
 - ici Recents of menuaring information shad include:
 - (1) The date exect place, and time of sampling or measurements
 - (2) The manufactal who conformed the sampling or measurements
 - (3) The datetal analyses were performed.
 - (4) The individuality who partormed the analysis
 - 51 The analytical techniques or methods used, and
 - 6) "he results of such anaestes
 - Manuscring must be consucted according to test procedures approvinger 40 CFR Part 138, unious other test procedures have been specific in this permit. Where no test procedure under 40 CFR Part 138 has be approved. The permittee must submit to the Agency a test mention of approved. The permittee had calibrate and perform maintenant procedures on all mentioning and appropriate on all mentioning and appropriate on all mentioning and appropriate and approved the permittee that calibrates instrumentation at intervals, security approximation.
- 11.11 Signatury requirement, All appacations, reports or information supmitted to Agency shot be signed and commercial
 - let. Application At correct applications shed be signed as follows.
 - (1) For a consensation by a principle scandow efficient of at least level of vice president or a person or position having over responsibility for invitational metal's for the comparation.
 - 12) For a partnership or sale proprietership by a general partnithe proprieter, respectively, or
 - (3) For a municipanty, State, Federal, or other public agence owner a process executive efficient or ranking election difficient.
 - Bit Reserts: All resorts requires by permits, or estat information requires the Agency shall be signed by a person described in paragraph; (a) or duty authorized representative of that person. A person is a duty authorized representative entry of
 - (1) The distinction is made in writing by a person describ paragraph (a) and
 - 21 The bullenessen species either on individual or a presentate for the everal degreeus or the facality, from with marketes resonance is on as a rates makeness is common to the common of the common

NPDES PERMIT SPEED OF PROCESSING

F	

Name (File Subject) Translel Inc	
Location (County) Zake	Region2
NPDES Number ILOO <u>02411</u>	Reviewer <u>REP</u>
t L G 25 0 0 13	
UNIT	TYPE OF APPLICATION
Industrial Major	New
Municipal Minor	Renewal
Watershed	Modification
Mine Current Permit Expiration Date: 05,01,94	Termination
Pate Received	12-02-93
Records Unit Log In	12-03-93
Sent to Word Processing	
Approved by Reviewer for 15 Day Notice	
Approved by Unit Manager	
To P.N. Clerk for 15 Day Notice	
Re-15 Day Notice	
Returned to Reviewer	
Approved by Reviewer for Public Notice	
Approved by Unit Manager	
To P.N. Clerk for 30 Day Notice	
Re-Public Notice	
Returned to Reviewer	
Approved by Reviewer for Issuance REP	4-8-94
Approved by Unit ManagerSFN	4-11-94
Approved by Section Manager	- 4-22-94
Date Issued	4-25'-94
ACTION	
Permit No Permit Required	
Modification Refusal of Modification	
Termination Denial	

COPIES NEEDED

		<u>= 103 H</u>
	2 PN/FS	_3 permit
Oraft Permit	Draft Permit	💆 Additional Engineer:
Application	Additional Engineer's Notes	Transmittal Letter
MOD/TERM Letter	Transmittal Letter	1 Other App
Engineer's Notes	Other	
Other	Other	
Engineer requests the f	* * * Following receive copies of the Pi	N/FS Permit:
Consultant	Facility	Consultant
Facility	NIPC	Facility
	 SIMAPC	NIPC
 Other	GERPDC	SIMAPC
	ORSANCO	GERPDC
	Indiana	ORSANCO (if sent at
	I owa	30-Day, must send at final stage)
	Missouri	Indiana
	Kentucky	Iowa
	MPC	Missourı
	DLC	Kentucky
	Other	MPC
COMMENTS:		IDOT
		Mines & Minerals
		DI C
		DLC

They do Resemble to Dies Fermal No.

2RS 0. X. DU

Page 1 of

Industrial NPDES Permit Review Notes

Ι.	Permittee Fanated Inc.	Permit No. IL <u>6250013</u>
	Facility Name Fanated Inc.	
	City North Chicago	County Lake
	Facility Contact Done Rumanik	
	Major Minor New SIC Code 3369-1 3412-1 SIC Category 12	ntral Administrative Office
The macorpore December 1	Brief description of manufacturing operatactive is presently the Corporate administrative and administrative continued to operate the manufacturing operation continued to operate the manufacturing was shut down in Newton, MA or auctioned off in May, 1991	ions and discharge sources: ration office and vacant buildings. 1990 to NRC Corporation. NRC ng operations at this location until and equipment moved to NRC Corpora-
facil	June, 1991, the facility has been the Corp ity has been up for sale since October, 199 Name of Receiving Stream Patturns Creek	1.
	Use Classification: General Use X	Other (specify)
	7010 O cfs Source of data	ISWS
	Notifications Needed: Bordering State	ORSANCO
	NIPC SIMAPC GE	RPDC
III.	Federal Categorical Stds. Apply: Yes	
	40 CFR Category	
	Subcategories	
IV.	Storm Water Classification: Not Covered	X Category i-x Category xi
	Application received: Yes No 🗴	_
	If category xi, is there exposure: Yes _	No No information $\stackrel{\textstyle extcolored{\times}}{\scriptstyle extcolored{\times}}$
I EPA	Permit Reviewer Richard C. Pinnes	Date 3-11-94

VII. Permit Limits Derivation - Outfall

Notes or Comments	304,125	12.2M																		!	!	
Mon. Freq. Sample Type	Henry Cernit	Henry Germit																				
Himits Max.	6					}															1	
Prop. Limits Avg. Max.	blown	101.70			}			}				}									-	
EL Max.			}		}		}		}		}		1		1		}	1	}	}	}	
MQBEL Avg. Max.																		1	!		}	
Fed. Limits* Avg. Max.														}							!	
Fed. Avg.																						
Limits Max.	0																				;	
Sec. 304 Limits Avg. Max.	(min))	302.24				}																
Limits Max.	5							}			{				}	}	{		{			
Current Limits Avg. Max.	(min)																					
Parameter-conc. mass	Flow pH (min. and max.)	Jemo.	•														;					

All units are mg/l (concentration) and lb./day (mass). *Attach calculations if needed in comments column, *Attach calculations if needed. Limit is based on categorical standards unless "BPJ" is noted in comments column, indicating technology-based limit was determined based on case-by-case BAT/BCT under 40 CFR 125.3.

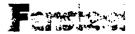
X. Treatment Types (check all that apply)

Physical/Chemical Treatment	Biological Treatment	Discharge Type
1A Ammonia Stripping 2A Carbon Adsorption 2N Chemical Hydrolysis 2B Chemical Oxidation 2C Chemical Precipitation 2D Coagulation 2F Disinfection (Chlorine) 2G Disinfection (Ozone) 4I Disinfection (Ultraviolet) 2H Disinfection(Other) 1D Distillation 2I Electrochemical Trunt 1E Electrodialysis 1F Evaporation 1G Flocculation 1I Foam Fractionation 1J Freezing 1K Gas Phase Separation 2J Ion Exchange 10 Mixing 2K Neutralization 2L Reduction 1W Solvent Extraction 1X Sorption		8H Constructed Wetland 4A Disch. to Surface Water 4B Ocean Discharge 4C Reuse/Recycle-Treated Eff. 4E Reuse/Sale of Wastewater 6J Subsurface Seepage 40 Underground Injection
Sludge Management	Preliminary, Primary, Filtration, Other Treatment	
5A Aerobic Digestion 5B Anaerobic Digestion 5C Belt Filtration 5D Centrifugation 5E Chemical Conditioning 5F Chlorine Treatment 5G Composting 5H Drying Beds 5I Elutriation 5J Flotation Thickening 5K Freezing (Sludge Treatment) 5L Gravity Thickening 5M Heat Drying 5N Heat Treatment 50 Incineration 5P Land Application (Sludge) 5Q Landfill 6E Lime Stabilization 5R Pressure Filtration 5S Pyrolysis 5T Sludge Lagoons 6K Thermophilic Digestion 5V Vacuum Filtration 5V Vibration 5W Wet Air Oxidation	1C Diat. Earth Filtration 1Y Equalization 6A Excess Flow Treatment 1H Flotation 4H Grease Removal 1L Grinding (Comminutors) 1M Grit Removal 3N Holding/Detention Pond 6B Imhoff Tank 1Z Intermittent Sand Filters 6C Irradiation/Beta Ray 6D Irradiation/Gamma Ray 1N Microstraining (Microscreening) 1P Moving Bed Filters 1Q Multimedia Filtration 2M Odor Control 6F Oil-Water Separator 6G Pasteurization 3L Post Aeration 3L Post Aeration 3E Pre-Aeration 8A Primary Treatment 1R Rapid Sand Filtration 1S Reverse Osmosis 1T Screening 1U Sedimentation (Settling) 1V Slow Sand Filtration 4F Temperature Control	

TK:rlc/933v,sp

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

	Subject F	anoted In	v.				-4	2	
	Data IL	-G250013							
	Reviewed b		· Pinnea	7 o		Date_	3-11-94		
	Fear(MGD)	T36 (mys)	ptt	(Differential) Temp. F	Ni (mja)	Phro (mje)	Volume (mgie)	Zn (mylê)	Oil House
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November 30, 1993

<u>Certified Mail</u> Return Receipt Requested

Illinois Environmental Protection Agency DWPC, Permits, #15
2200 Churchill Road
P.O. Box 19276
Springfield, IL 62794-9276

Attention: Ms. Marilyn Davenport

Gentlemen:

Enclosed herewith is the NPDES permit renewal application for Fansteel's North Chicago facility. I apologize for the delay but I miscalculated the 180 day requirement.

Please contact me if you have any questions.

Very truly yours,

FANSTEEL INC.

Gene L. Kacmarcik

Supervisor, Facility Engineering

jjt_

Enclosures

RECEIVED

DEC 0 2 1993

Environmental Protection Figuricy

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LOCATION			/	//	E 0/0	1.6		acv I	tione a	ntructions and for the	e legal au	uthori		
POLLUTANT CHARACTERISTICS		/		Payingni	mental	SIN GONG	ii Age	77	which t	his data is	collected,			
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Is this a facility which currently read to waters of the U.S. other than the	ults in discharges lose described in	$\overline{}$		Х	in	A or B	above/	which w		en those of tin a dies			X	
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Do you or will you inject at this facili			11			dergroun				cility fluid	s for spe-	717	38	- 13
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oil or natural gas, or inject fluids for hydrocarbons?		L.—	X	<u> </u>	4		•			90 0therma	•	35	X	36-
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NPDES		aciliti	OS VVIIIGO	DO NOT L	rischarge r	LOCKIN AAG	IS CONTRACTOR
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Outlall	Latitude	Longit		g Water (name)			
Number (list)	eg Min Sec	Deg Mil	n Sec Pett	ibone Creek			
001 4	2 19 18	87 50	38				
Discharge Date (If	a new discharge	er, the date y	rou expect to begin	n discherging) N/A	A		
Type of Waste							
Check the bax(es) if		neral type(s) rant or Caleton	তি ব	ged. Nencontest Cooling V		onpraces	•••
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It and Greese Chemical oxygen demai (DD) Total organic carbon (TC) mineria (as M) puharga Flore I (give range)	A .4.7 A .4.3 OCI 2.9 O.6 Volum .19	Kg Kg Kg	- 3.0 mg/1 <25.0 mg/1 5.0 mg/1	.53 Kg 17 Kg <2.9 Kg 0.2 Kg 0.1 Kg	4.71 mg/1 - <1.68 mg/1 <5.0 mg/1 5.0 mg/1 <1.0 mg/1	12 - - 4 1 1	- - - - - - -

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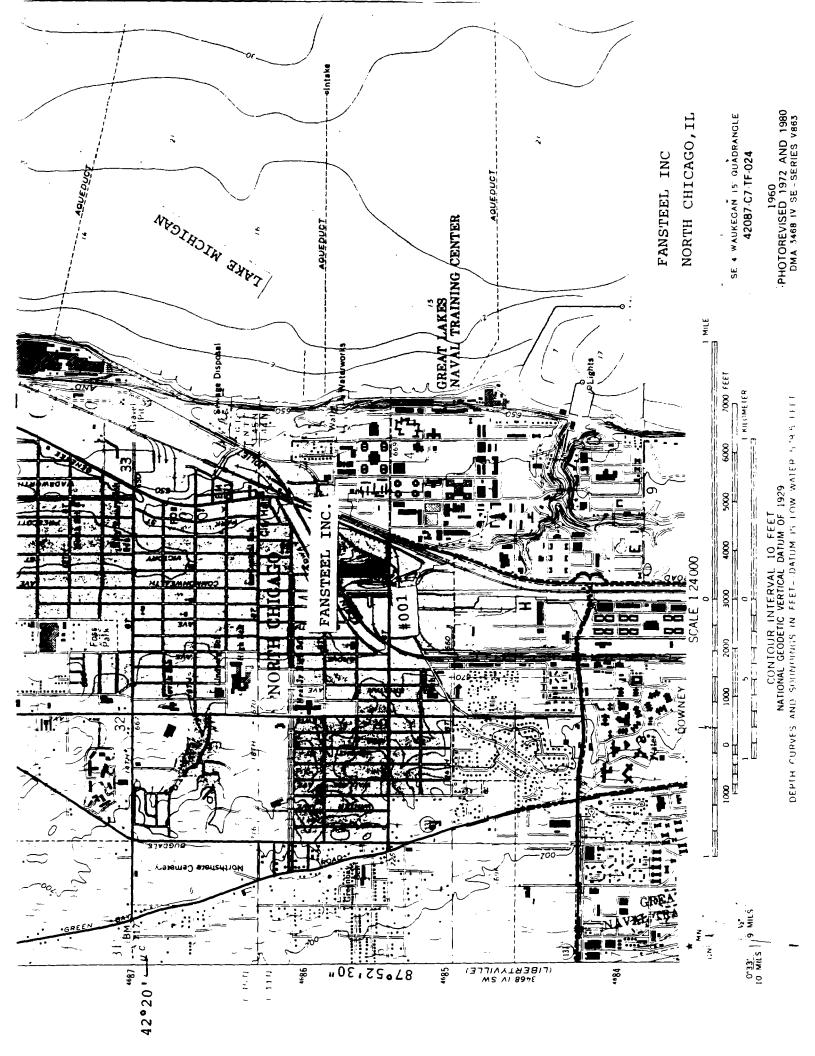
°C Monthly

Attachment "A"

The present NPDES permit requires sampling for Toluene for the quarterly reports. The laboratory results have been:

2nd Quarter 1992	3rd Quart 2nd Quart 1st Quart 4th Quart 3rd Quart	er 1993 er 1993 er 1992	N.D. N.D. <0.002 mg/1 <1.0 ug/1 <1.0 ug/1
4th Quarter 1991 <1.0 ug/l	•	-	•
3rd Quarter 1991 N.D. 2nd Quarter 1991 <1.0 ug/l	. •		
2nd Quarter 1991 <1.0 ug/1	4th Quart	er 1991	<1.0 ug/1
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4th Quarter 1989 <0.001 mg/1	2nd Quart	er 1990	< 0.001 mg/1
•	1st Quart	er 1990	< 0.001 mg/1
	4th Quart	er 1989	< 0.001 mg/1
	•		< 0.001 mg/1

We request that the requirement in the NPDES permit to test Toluene be eliminated since no or only insignificant amounts have been detected.



Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

217/782-0610

NOV 1 2 1993

Fansteel, Inc. One Tantulum Place North Chicago, Illinois 60064

Re: Fansteel, Inc.

NPDES Permit No. IL0002411

Second Reminder of Expiration Date

Gentlemen:

Our records indicate that we have not received a response to our previous request that you submit an application for the renewal of the subject permit.

The subject permit expires on May 1, 1994; a proper application for re-issuance of your permit must be submitted.

We are <u>again</u> requesting that you submit the appropriate application for the renewal of your permit. If circumstances are such that you feel the permit should be terminated, please send written notice to this effect to the DWPC, Permit Section, at the address shown above.

If you have any questions, please call 217/782-0610.

Sincerely,

Marilyn Davenport Office Administrator

Permit Section

Division of Water Pollution Control

MD:PD:kw/2140v.97

cc: Maywood R.Ø.

Records Sinds

APP = REF = 12/52/13

Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

217/782-0610

August 13, 1993

Fansteel, Inc. One Tantulum Place North Chicago, Illinois 60064

Re: Fansteel, Inc.

NPDES Permit No. IL0002411 Reminder of Expiration Date

Gentlemen:

Our records indicate that the subject NPDES permit expires on May 1, 1994. That permit requires that you submit a proper application for the re-issuance of the permit not later than 180 days prior to the expiration date.

For your convenience, we have enclosed application forms, which we believe to be appropriate for your situation, with instructions and other pertinent material. If you desire a set of forms other than those enclosed, or if you have other questions, please call me at the indicated telephone number.

Sincerely,

Marilyn Davenport

Office Administrator

Permit Section

Division of Water Pollution Control

MD:bjh/1545v/85

Enclosures

cc: Records Unit

Maywood Region



Ċ.

R

217/782-0610

Fansteel, Inc. Fansteel, Inc. NPDES Permit No. IL0002411 Final Permit

July 28, 1989

Fansteel, Inc. One Tantulum Place Morth Chicago, Illinois

Gentlemen:

Attached is the final MPDES Permit for your discharge. The Permit as issued covers discharge limitations, monitoring, and reporting requirements. The failure of you to meet any portion of the Permit could result in civil and/or criminal penalties. The Illinois Environmental Protection Agency is ready and willing to assist you in interpreting any of the conditions of the Permit as they relate specifically to your discharge.

The Permit as issued is effective as of the date indicated on the first page of the Permit. You have the right to appeal any condition of the Permit to the Illinois Pollution Control Board prior to the effective date.

Should you have questions concerning the Permit, please contact Ed Kane at the telephone number indicated above.

Very truly yours,

Thomas G. McSwiggin, R.E.

Manager, Permit Section

Division of Water Pollution Control

TEM:TRK:ETK:dks/1623k

Attachment: Final Permit

cc: USEPA 5HQP/With Enclosure Region II/With Enclosure

Records Unit

Compliance Assurance Section/with enclosure

MPDES Permit No. IL0002411

. .

Illinois Environmental Protection Agency

Division of Water Pollution Control

2200 Churchill Road

P.O. Box 19276

Springfield, Illinois 62794-9276

MATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Reissued (NPDES) Permit

Expiration Date: Hay 1, 1994

Issue Date: July 27, 1989

Effective Date: August 26, 1989

Name and Address of Permittee:

Facility Name and Address:

Fansteel, Inc. One Tantulum Place North Chicago, Illinois Fansteel, Inc.
One Tantulum Place
North Chicago, Illinois 60064

Lake County

Discharge Number and Name:

Receiving Waters

001 Non-contact cooling water and stormwater

Pettibone Creek via storm sewer tributary to take Hichigan

In compliance with the provisions of the Illinois Environmental Protection Act, Subtitle C and/or Subtitle D Rules and Regulations of the Illinois Pollution Control Board, and the Clean Water Act, the above-named permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.

Thomas G. HcSwiggin, P.E. Manager, Permit Section

Bivision of Water Pollution Control

TGM: EK: dks/sp/1774k

0 3 2

NPDES Permit No. IL0002411

Effluent Limitations and Monitoring

LOAD LIMITS

| Document | Documen

1. From the effective date of this permit until the expiration date, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): 001

Flow (MGD)	Shall be reported as 30 day a	Avg. and Dally	y Max.	Measure Wh Monitorin	
рН	See Special Condition 1			1/Month	Grab
Temperature	See Special Condition 2			1/Honth	Grab
017 and Grease*		15	30	Quarterly	Grab
Suspended Solids Total		15	30	1/Honth	Composite
Nickel*		1.0	2.0	Quarterly	Composite
Phosphorous*		1.0	2.0	Quarterly	Composite
Zinc*		1.0	2.0	Quarterly	Composite
Toluene*				Quarterly	Composite

[&]quot;Sampling results shall be submitted with the January, April, July and October Discharge Monitoring Report Forms.

Special Conditions

- 1. The pH shall be in the range 6.0 to 9.0. The monthly minimum and monthly maximum values shall be reported on the DMR form.
- 2. Discharge of wastewater from this facility must not alone or in combination with other sources cause the receiving stream to violate the following thermal limitations at the edge of the mixing zone which is defined by Section 302.211, Illinois Administration Code, Title 35, Chapter 1, Subtitle C, as amended:
- A. Maximum temperature rise above natural temperature must not exceed S°F (2.8°C).
- 8. Water temperature at representative locations in the main river shall not exceed the maximum limits in the following table during more than one (1) percent of the hours in the 12-month period ending with any month. Moreover, at no time shall the water temperature at such locations exceed the maximum limits in the following table by more than 3°F (1.7°C). (Main river temperatures are temperatures of those portions of the river essentially similar to and following the same thermal regime as the temperatures of the main flow of the river.)
- C. The monthly maximum value shall be reported on the DMR form.

	Jank	Eeb.	Mar.	Apri	Hay	June	Aint	VAGY	Sept.	Oct.	Nov.	Dec.
°F	60	60	60	90	90	90	90	90	90	90	90	60
٥c	16	16	16	32	32	32	12	32	32	32	32	16

- 3. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into the City of North Chicago storm sewer.
- 4. For the purpose of this permit, the discharge—is limited to non-contact cooling water and stormwater, free from process and other wastewater discharges. In the event that the permittee shall require the use of water treatment additives, the permittee must request a change in this permit in accordance with the Standard Conditions -- Attachment H.
- S. The permittee shall record monitoring results on Discharge Monitoring Report forms using one such form for each discharge each month. The completed Discharge Monitoring Report form shall be submitted monthly to IEPA, no later than the 15th of the following month, unless otherwise specified by the Agency, to the following address:

Illinois Environmental Protection Agency Division of Water Pollution Control Compliance Assurance Section 2200 Churchill Road P.O. Box 19276 Springfield, Illinois 62794-9276

Fanstee! Metab

January 13, 1987

RECEIVED
Compliance Assurance Section

Illinois Environmental Protection Agency Division of Water Pollution Control 2200 Churchill Road Springfield, IL 62706 1.1N 1 6 1997

Environmental Protection Agency
STATE OF ILLINOIS

Attention: Compliance Assurance Section

Subject: NPDES Discharge Monitoring Report

Reference: NPDES Permit IL 0002411

Gentlemen:

 \Box

Enclosed is our discharge monitoring report for the month of December, 1986.

We have shut down our manufacturing operation on the south side of the street on September 30, 1986. We have been cleaning up the facility and removing all the equipment for the sale of the facility and property. With the future sale of this property, we will be reporting only one outfall (#001) from our facility versus the present two.

Please contact me if you have any questions.

Yours very truly,

FANSTEEL/METALS

General Manager

PFZ:mb

Enclosure

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RECEIVED

MAR 2.1 1987

Embranmental Prefection Acoustic State of Illinois

Fansteel Metals

om in cago unha s 60064 | propin (3121/689/4900 | 1909), 10/11/11/11/14/14/4

March 18, 1987

Illinois Environmental Protection Agency Division of Water Pollution Control 2200 Churchill Road P.O. Box 19276
Springfield, Illinois 62794-9276

Attention: Mr. Rick Pinneo

Subject: NPDES Primit No. IL0002411

Dear Mr. Pinneo:

Please be advised that the property served by Outfall #002 was vacated by Fansteel and ownership transferred to another party on December 30, 1986. Fansteel has therefore discontinued the sampling of outfall #002 and will report on #001 only.

Please contact me if you have any questions.

Yours very truly,

FANSTEEL/METALS

P.F. Ziegler General Manager

PFZ:cp

cc: G.L. Kacmarcik



217/782-0610

Fansteel Inc.
Fansteel Inc.
HPDES Permit No. ILOCC2411
Modification of NPDES Permit (After Public Notice)
May 29, 1937

Fansteel Inc.
One Tantalum Place
Horth Chicago, IL 60064

Gentlemen:

The Illinois Environmental Protection Agency has reviewed the request for modification of the above-referenced MPDES Permit and issued a public notice based on that request. The final decision of the Agency is to modify the Permit as follows:

To eliminate Cutfall 002 as a discharge.

Enclosed is a copy of the modified Permit.

Should you have any question or comments regarding the above, please contact Richard E. Pinneo of my staff.

Very truly yours,

Thomas R. Roswiggin, P.E. Panager, Permit Section

Division of Nater Pollution Control

TCM: TPK: PEP:st:1872g,15

Enclosure: Rodified Permit

cc: USEPA 5MCP/With Enclosure Region 2/Mith Enclosure

Records Unitu

Compliance Assurance Section/with enclosure

NPDES Permit No. IL0002411

Illinois Environmental Protection Agency

Division of Water Pollution Control

2200 Churchill Road

Springfield, Illinois 62706

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Modified (NPDES) Permit

Expiration Date: July 15, 1989
Modification Issue Date: May 29, 1987

Issue Date: August 3, 1984
Effective Date: September 2, 1984

Modification Effective Date: June 28, 1987

Name and Address of Permittee:

Facility Name and Address:

Fansteel Inc.
One Tantalum Place
North Chicago, Illinois 60064

Fansteel Inc.
One Tantalum Place
North Chicago, Illinois 60064

Discharge Number and Name:

Receiving Waters

001 Non-contact cooling water and stormwater

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Pettibone Creek via storm sewer tributary to Lake Michigan

In compliance with the provisions of the Illinois Environmental Protection Act, Subtitle C and/or Subtitle D Rules and Regulations of the Illinois Pollution Control Board, and the FWPCA, the above-named permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.

Thomas G. McSwiggin, P.E. Manager, Permit Section

Division of Water Pollution Control

TGM:GS:jd/1056D/3

Page 2

NPDES Permit No. IL0002411

Effluent Limitations and Monitoring

		LIMITS :/day		NTRATION ITS mg/l		
PARAMETER	30 DAY AVG.	DATLY MAX.	30 DAY AVG.	DAILY MAX.	SAMPLE FREQUENCY	SAMPLE TYPE
1. From the effect discharge shall b	tive date o	of this permit unti i and limited at al	l July 15, 198 l times as fol	9, the effluent lows:	t of the foll	owing
	Outfall:	001				
flow, mgd					1/Month	Single Reading
Suspended Solids Total			15	30	1/Month	Composite
срН	shall be i	in the range of 6.0	to 9.0		1/Month	Grab
^C Temperature	See Specia	1 Condition No. 2			1/Month	Grab

Oil and Grease

Quarterly

Grab

NPDES Permit No. IL0002411

Special Conditions

- 1. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into the City of North Chicago storm sewer.
- 2. Discharge of wastewater from this facility must not alone or in combination with other sources cause the receiving stream to violate the following thermal limitations at the edge of the mixing zone which is defined by Section 302.211, Illinois Administration Code, Title 35, Chapter 1, Subtitle C, as amended:
- A. Maximum temperature rise above natural temperature must not exceed 50F (2.8°C).
- B. Water temperature at representative locations in the main river shall not exceed the maximum limits in the following table during more than one (1) percent of the hours in the 12-month period ending with any month. Moreover, at no time shall the water temperature at such locations exceed the maximum limits in the following table by more than 3°F (1.7°C). (Main river temperatures are temperatures of those portions of the river essentially similar to and following the same thermal regime as the temperatures of the main flow of the river.)

	<u>Jan.</u>	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	<u>Oct.</u>	Nov.	Dec.
٥F	60	60	60	90	90	90	90	90	90	90	90	60
οС	16	16	16	32	32	32	32	32	32	32	32	16

3. Outfall 001 Monitoring - The permittee shall monitor and report concentrations (in mg/l) of the following listed parameters at 3 month intervals. The sample shall be a 24-hour effluent composite except as otherwise specifically provided below and the results shall be submitted with the January, April, July, and October Discharge Monitoring Report Forms to both IEPA and USEPA unless otherwise specified by the Agency. The parameters to be sampled are:

Nickel Phosphorous as P (STORET number 00665) Toluene Zinc

Modification Date: May 29, 1987

Page 4

NPDES Permit No. IL0002411

Special Conditions

Unless otherwise indicated, concentrations refer to the total amount of the constituent present in all phases, whether solid, suspended or dissolved, elemental or combined, including all oxidation states. Where constituents are commonly measured as other than total, the word "total" is inserted for clarity.

In addition, the permittee shall monitor any new toxic substances as defined by the Clean Water Act (CWA) following notification by the Illinois Environmental Protection Agency.

A composite sample shall consist of at least 8 aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of the facility over a 24-hour period. For volatile pollutants, aliquots must be combined in the laboratory immediately before analysis. The composite shall be flow proportional.

Sampling shall be conducted on two sampling days when stormwater runoff is occurring and shall commence at the start of the stormwater discharge. The permittee shall report the date and time of sampling and whether stormwater is represented in the results.

If the permittee, after monitoring the above list four times, can demonstrate to the satisfaction of the Agency that there is no significant discharge of the designated parameters and that, in that time, the parameters have not exceeded the effluent limit and/or water quality limit set for said parameters, upon written request by the permittee, the Agency shall review the monitoring requirements and may, at their discretion, revise or waive these monitoring requirements by letter without public notice or opportunity for hearing.

- 4. For the purpose of this permit, this discharge is limited to non-contact cooling water and stormwater runoff, free from process and other wastewater discharges. In the event that the permittee shall require the use of water treatment additives, the permittee must request a change in this permit in accordance with the Standard Conditions -- Attachment H.
- 5. The permittee shall record mc ing results on Discharge Monitoring Report Forms using one such form rur each discharge each month.

The completed Discharge Monitoring Report forms shall be submitted to IEPA no later than the 15th day of the following month, unless otherwise specified by the permitting authority.

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NPDES Permit No. IL0002411

Special Conditions

Discharge Monitoring Reports shall be mailed to the IEPA at the following address:

Illinois Environmental Protection Agency Division of Water Pollution Control 2200 Churchill Road Springfield, Illinois 62706

Attention: Compliance Assurance Section

Additionally, Discharge Monitoring Report forms shall be mailed to United States Environmental Protection Agency in Chicago on a quarterly basis. The permittee shall submit the reports as follows, unless otherwise specified by the permitting authority.

Period Report Due At
U.S. Environmental Protection Agency

Jan, Feb, Mar April 28th
April, May, June July 28th
July, Aug, Sept October 28th
Oct, Nov, Dec January 28th

Reports shall be addressed to United States Environmental Protection Agency as follows:

NPDES Compliance Unit United States Environmental Protection Agency Region V 230 South Dearborn Street Chicago, Illinois 60604



217/782-0610

Fansteel Incorporated - North Chicago NPDES Permit No. IL0002411 Final Permit

AUG 0 3 1984

Fansteel Inc.
One Tantalum Place
North Chicago, Illinois 60064

Gentlemen:

Attached is the final NPDES Permit for your discharge. The Permit as issued covers discharge limitations, monitoring, and reporting requirements. The failure of you to meet any portion of the Permit could result in civil and/or criminal penalties. The Illinois Environmental Protection Agency is ready and willing to assist you in interpreting any of the conditions of the Permit as they relate specifically to your discharge.

The Permit as issued is effective as of the date indicated on the first page of the Permit. You have the right to appeal any condition of the Permit to the Illinois Pollution Control Board prior to the effective date.

Should you have questions concerning the Permit, please contact Gerry Siekerka at the telephone number indicated above.

Yery truly yours,

Thomas G. McSwiggin, P.E.

Manager, Permit Section

Division of Water Pollution Control

TGM:GLS:jd/1006D/38

Enclosure: Final Permit

cc: USEPA/Nith Enclosure Region II/Nith Enclosure Permit Section

Records Unit
Consulting Engineer

Illinois Environmental Protection Agency

Division of Water Pollution Control

2200 Churchill Road

Springfield, Illinois 62706

NATIONAL PULLUTANT DISCHARGE ELIMINATION SYSTEM

Reissued (NPDES) Permit

Expiration Date: July 15, 1989

Issue Date: August 3, 1984

Effective Date: September 2, 1984

Name and Address of Permittee:

Facility Name and Address:

Fansteel Inc.
One Tantalum Place
North Chicago, Illinois 60064

Fansteel Inc.
One Tantalum Place
North Chicago, Illinois 60064

Discharge Number and Name:

Receiving Waters

001 Non-contact cooling water and stormwater

Pettibone Creek via storm sewer tributary to Lake Michigan

002 Non-contact cooling water and stormwater

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Pettibone Creek via storm sewer tributary to Lake Michigan

In compliance with the provisions of the Illinois Environmental Protection Act, Subtitle C and/or Subtitle D Rules and Regulations of the Illinois Pollution Control Board, and the FWPCA, the above-named permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.

Thomas G. McSwiggin, P.E. Manager, Permit Section

Division of Water Pollution Control

TGM:GS:jd/1056D/3

Effluent Limitations and Monitoring

	LOAD LIMITS lbs/day			CONCENT LIMIT	RATION S mg/l	mg/1			
PARAMETER	30 DAY AVG.	DAILY MAX.		30 DAY AVG.	MAX.	SAMPLE FREQUENCY	SAMPLE TYPE		

1. From the effective date of this permit until July 15, 1989, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): 001 and 002

CFlow, mgd				1/Month	Single Reading
Suspended Solids Total		15	30	1/Month	Composite
⇔ рН	shall be in the range of 6.0	to 9.0		1/Month	Grab
Temperature	See Secial Condition No. 2			1/Month	Grab
Oil and Grease				Quarterly	Grab

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Special Conditions

- 1. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into the City of North Chicago storm sewer.
- 2. Discharge of wastewater from this facility must not alone or in combination with other sources cause the receiving stream to violate the following thermal limitations at the edge of the mixing zone which is defined by Section 302.211, Illinois Administration Code, Title 35, Chapter 1, Subtitle C, as amended:
- A. Maximum temperature rise above natural temperature must not exceed 5°F (2.8°C).
- B. Water temperature at representative locations in the main river shall not exceed the maximum limits in the following table during more than one (1) percent of the hours in the 12-month period ending with any month. Moreover, at no time shall the water temperature at such locations exceed the maximum limits in the following table by more than 30F (1.70C). (Main river temperatures are temperatures of those portions of the river essentially similar to and following the same thermal regime as the temperatures of the main flow of the river.)

	Jan.	<u>Feb.</u>	Mar.	Apr.	May	June	July	<u>Aug.</u>	<u>Sept.</u>	Oct.	Nov.	Dec.
٥F	60	60	60	90	90	90	90	90	90	90	90	60
οС	16	16	16	32	32	32	32	32	32	32	32	16

3. Outfall 001 and 002 Monitoring - The permittee shall monitor and report concentrations (in mg/l) of the following listed parameters at 3 month intervals. The sample shall be a 24-hour effluent composite except as otherwise specifically provided below and the results shall be submitted with the January, April, July, and October Discharge Monitoring Report Forms to both IEPA and USEPA unless otherwise specified by the Agency. The parameters to be sampled are:

Nickel Phosphorous as P (STORET number 00665) Toluene Zinc

Special Conditions

Unless otherwise indicated, concentrations refer to the total amount of the constituent present in all phases, whether solid, suspended or dissolved, elemental or combined, including all oxidation states. Where constituents are commonly measured as other than total, the word "total" is inserted for clarity.

In addition, the permittee shall monitor any new toxic substances as defined by the Clean Water Act (CWA) following notification by the Illinois Environmental Protection Agency.

A composite sample shall consist of at least 8 aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of the facility over a 24-hour period. For volatile pollutants, aliquots must be combined in the laboratory immediately before analysis. The composite shall be flow proportional.

Sampling shall be conducted on two sampling days when stormwater runoff is occurring and shall commence at the start of the stormwater discharge. The permittee shall report the date and time of sampling and whether stormwater is represented in the results.

If the permittee, after monitoring the above list four times, can demonstrate to the satisfaction of the Agency that there is no significant discharge of the designated parameters and that, in that time, the parameters have not exceeded the effluent limit and/or water quality limit set for said parameters, upon written request by the permittee, the Agency shall review the monitoring requirements and may, at their discretion, revise or waive these monitoring requirements by letter without public notice or opportunity for hearing.

- 4. For the purpose of this permit, this discharge is limited to non-contact cooling water and stormwater runoff, free from process and other wastewater discharges. In the event that the permittee shall require the use of water treatment additives, the permittee must request a change in this permit in accordance with the Standard Conditions -- Attachment H.
- 5. The permittee shall record monitoring results on Discharge Monitoring Report Forms using one such form for each discharge each month.

The completed Discharge Monitoring Report forms shall be submitted to IEPA no later than the 15th day of the following month, unless otherwise specified by the permit authority.

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Special Conditions

Discharge Monitoring Reports shall be mailed to the IEPA at the following address:

Illinois Environmental Protection Agency Division of Water Pollution Control 2200 Churchill Road Springfield, Illinois 62706

Attention: Compliance Assurance Section

Additionally, Discharge Monitoring Report forms shall be mailed to United States Environmental Protection Agency in Chicago on a quarterly basis. The permittee shall submit the reports as follows, unless otherwise specified by the permitting authority.

Period Report Due At U.S. Environmental Protection Agency

Jan, Feb, Mar April 28th
April, May, June July 28th
July, Aug, Sept October 28th
Oct, Nov, Dec January 28th

Reports shall be addressed to United States Environmental Protection Agency as follows:

NPDES Compliance Unit United States Environmental Protection Agency Region V 230 South Dearborn Street Chicago, Illinois 60604

Illinois Environmental Protection Agency

Division of Water Pollution Control

2200 Churchill Road

Springfield, Illinois 62706

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Reissued (NPDES) Permit

Expiration Date:

June 30, 1981

Issue Date: Jan. 9, 1979 Effective Date: Feb. 8, 1979

Permittee:

Fansteel Inc.

Facility Name and Address: Fansteel Inc., Number One Tantalum Place, North Chicago, Illinois 60064, Lake County

Receiving Waters:

Pettibone Creek

In compliance with the provisions of the Illinois Environmental Protection Act, the Chapter 3 Rules and Regulations of the Illinois Pollution Control Board, and the FWPCA, the above-named permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.

Thomas G. McSwiggin, P.E.

Manager, Permit Section

Division of Water Pollution Control

TGM:YS:nk/sp5134a

ATTACHMENT B

Effluent Limitations and Monitoring

Discharge Number(s):

001 and 002

Discharge Name(s):

001: Non-contact cooling water and storm water run-off from

north side of plant.

002: Non-contact cooling water and stormwater run-off from south side of plant.

From effective date of permit until June 30, 1981, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

_ `	••	CONCENTRATION LIMITS mg/l				LOAD LIMITS lbs/day (Kg/day))		
 	PARAMETER	30 DAY AVG.	7 DAY AVG.	DAILY MAX.	30 DAY AVG.	7 DÂY AVG.	DAILY MAX.	SAMPLE FREQUENCY	SAMPLE TYPE
,	Flow (MGD)							1/Month	
_	рН	See Att	achment	t B Cont	inued			1/Month	Grab
•••	Temperature	See Att	:achment	B Cont	inued			1/Month	Grab
	Total Suspended								
ᠸ	Solids			15				1/Month	Composite

ATTACHMENT B CONTINUED

- The pH shall be in the range 6.0 to 9.0.
- 2. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into municipal storm sewer.
- 3. Discharge of wastewater from this facility must not alone or in combination with other sources cause the receiving stream to violate the following thermal limitations at the edge of the mixing zone which is defined by Rule 201(a), Illinois Pollution Control Board Rules and Regulations, Chapter 3: Water Pollution, as amended:
- A. Maximum temperature rise above natural temperature must not exceed 50F (2.780C).
- B. Water temperature at representative locations in the main river shall not exceed the maximum limits in the following table during more than one (1) percent of the hours in the 12-month period ending with any month. Moreover, at no time shall the water temperature at such locations exceed the maximum limits in the following table by more than 30F (1.670C). (Main river temperatures are temperatures of those portions of the river essentially similar to and following the same thermal regime as the temperatures of the main flow of the river.)

	<u>Jan.</u>	Feb.	Mar.	Apr.	<u>May</u>	<u>June</u>	July	Aug.	<u>Sept.</u>	<u>Oct.</u>	Nov.	Dec.
oF	60	60	60	90	90	90	90	90	90	90	90	60
οС	15.6	15.6	15.6	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	15.6

4. The permittee shall record monitoring results on Discharge Monitoring Report Forms using one such form for each discharge each month.

Discharge Monitoring Reports shall be mailed to the IEPA at the following address:

Illinois Environmental Protection Agency Division of Water Pollution Control 2200 Churchill Road Springfield, Illinois 62706

Attention: NPDES Unit (DMR)

ATTACHMENT B CONTINUED

5. The completed Discharge Monitoring Report forms shall be retained by the permittee for a period of six months and then shall be mailed and received by the IEPA in accordance with the following schedule, unless otherwise specified by the permitting authority.

Period

Received by IEPA

March, April, May, June, July, August

September 15

September, October, November, December, January, February

March 15

- 6. In the event when oil spill occurs, permittee shall analyze the grab sample and report to the Agency.
- 7. For the purpose of this permit the discharge 001 is limited to non-contact cooling water and storm water and discharge 002 is limited to non-contact cooling water from air conditioning and storm water free from process and any other waste water discharges.

Page Attachment H

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- 14. The permittee shall take all measonable steps to minimize any adverse function waters of the State resulting from non-compliance with any effluent limitations specified in this permit. The permittee will also provide accelerated or additional monitoring as necessary to determine the nature and the impact of the non-complying discharge(s).
- 15. The permittue is responsible for maintaining adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures either by means of alternate power sources, standby generators or retention of inadequately treated effluent. Should the treatment works not include the above capabilities at the time of permit issuance, the permittee must furnish within 120 days to the Agency, for approval, plans for such facilities and an implementation schedule for their installation.
- 16. The permittee shall effectively monitor the operation and efficiency of all treatment and control facilities and the quantity and quality of the treated discharge. The permittee must obtain the equipment occasion to perform the tests designated by the influent and effluent limitations indicated in Schedula B, and A if included, or be able to utilize other laboratory services to determine and report the necessary results. Samples and weasurement taken as required herein shall be representative of the volume and nature of the monitored discharge. Monitoring data required for this permit shall be summarized on a calendar month basis. Individual reports for each reporting period are to be submitted on the basis indicated in Schedula B and A if included of this permit, and/or on the appropriate forms as indicated by the Agency. Original copies of the Discharge Monitoring Report form properly signed and completed must be submitted and postmarked within fifteen [15] days after the end of the reporting period to: Illinois EPA, DMFC, 2200 Cherchill Road, Springfield, Illinois, 62706, Attention: MPDES Unit (DMR).
- 17. The permittee shall record for all samples the date and time of sampling, the sampling method used, the date that analyses were performed, the identity of the analyses, and the results of all required analysis and measurements. All sampling and analytical records required by this permit shall be retained for a minimum of three years. The permittee shall also retain all original records from any continuous monitoring instrumentation and any calibration and maintenance records for a minimum of three years. The periods will be extended on a day-fer-day basis during the course of any unresolved litigation, or when so requested by the Agency.

If the permittee menitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report Form. Such increased frequency shall also be indicated.

- 18. The analytical and sampling methods used shell conform to 40 CFR Part 136 which includes <u>selected</u> methods from current editions of the reference manuals listed below:
 - a. "Standard Methods for the Examination of Water and Wastewaters", APHA, Washington, D.C.
 - b. "A.S.T.M. Standards, Part 31, Mater"; American Society for Testing and Materials, Philadelphia, Pennsylvania.
 - c. "Methods for Chemical Analysis of Water and Waste", EPA, Technology Transfer.

The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals to ensure accuracy of measurements.

- 19. Except for data determined to be confidential pursuant to Section 7 or 7.1 of the Act or Section 308 of the FMPCA, all monitoring reports recorded by this permit shall be available for public inspection at the offices of the Agency. Knowingly making any false statement on any such report may result in the implementation of criminal penalties as provided for in Section 309 of the FMPCA and Section 44 of the Act.
- 20. The permittee shell et all times maintain in good working order and operate as efficiently as possible any facilities or systems of control installed by the permittee to achieve compliance with the terms and conditions of the permit.
- Duners of publicly owned or publicly regulated treatment works shall require that any industrial user of such treatment works comply with federal requirements concerning:
 - User charges and recovery of construction costs pursuant to Section 204(b) of the FMPCF, and applicable regulations in 40 CFR 35;

- Toxic pollutant effluent standards and pretreatment standards pursuant to Section 307 of the FMPCA;
- Inspection, monitoring and entry pursuant to Section 308 of the EMPCA.
- 22. Collected screenings, slurries, sludges, and other solids shall be disposed of in such a manner as to prevent entry of those wastes (or runoff from the wastes) into waters of the State. The proper authorization for such disposal shall be obtained from the Agency and is incorporated as part hereof by reference.
- 23. If any interim effluent limitations and/or schedule of compliance is provided for in this permit pursuant to Rule 409 of Chapter 3, the permittee is required to take such action to bring the discharge into compliance within the shortest period of time possible. If the Agency determines that the permittee is not taking timely action to secure the appropriate grant funding, the Agency may take the following act ons:
 - a. Place the permittee on restricted status.
 - b. Initiate appropriate enforcement action.
- 24. The discharcii(s) authorized by this permit shall comply with, in addition to the requirements of the permit, all applicable provisions of Chapter 3 or applicable orders of the Board which are consistent with the FMFCA or regulations adopted thereunder.
- 25. The permittee shall not commence construction or modification of any treatment works, disposal well, westewater source, or process modification until an authorization to construct has been issued pursuant to Aule 910 of Chapter 1. If an authorization to construct is issued, it is hereby incorporated as a condition of this permit.
- 26. The permittee is not authorized to discharge after the expiration date. In order to receive authorization to discharge beyond the expiration date, The nermittee shall submit the proper application as required by the Agency not later than IBO days prior to the expiration date.
- 27. "This permit may be modified or revised, or, alternatively revoked and reissued, to comply with an applicable effluent limitation issued pursuant to the order of the United States District Court for the District of Columbia issued on June 8, 1976, in Natural Resources Defense Council, Inc. et. al. v. Russell E. Train, 8 ENC 2120 (D.D.C. 1976), if the effluent limitation so issued:
 - is different in conditions or more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit."

This permit may be revised, following notice by the Agency that applicable effluent limitations covered by the Natural Resources Defense Council, Inc. et.al. v. Train, 8 E.R.C. 2120 (D.D.C. 1976) will not be promulgated, to incorporate any applicable effluent limitation determined under Section 422(a)(1) of the Federal Water Pollution Control Act. (FMPCA) Amendments of 1972 as necessary to carry out the provisions of Section 301(b)(2)(a) of the FMPCA, if the effluent limitation so determined:

- a. Is more stringent than any effluent limitation in the permit; or
- b. Controls any pollutant not limited in the permit.
- 28. This permit may be revised to incorporate, if necessary, applicable provisions of an approved 208 plan pursuant to Section 208 of the FMPCA.
- 29. Applicable new or amended Pollution Control Board Rules or Regulations, Regulations promulgated pursuant to the PMPCA or Amendments to the FMPCA shall be incorporated herein and become part hereof when the Rule, Regulation or Amendment becomes effective. The Agency will notify each affected MPDES permittee of such incorporation.
- 30. The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

36/bs/4621/1-8 (Rev. 9/19,78)

ATTACHPENT H

Standard Ernditions

Act means the Illinois Environmental Protection Act, Ch. III 1/2 III. Rev. Stat., Sec. 1001-1051 as Amended.

- , Agency means the Illinois Environmental Protection Agency.
- Board means the Illinois Polletion Control Board.

Chapter 3 means the Illinois Pollution Control Board Rules and Regulations, Chapter 3: Water Pollution.

Daily maximum means the maximum unit magnitude discharged during any calendar day.

<u>Director</u> means the Director of the Illino's Environmental Protection Agency.

FMPCA means the Federal Mater Pollution Cortrol Act, as amended, 33 U.S.C. 466 et seq., Public Law 95-217, approved December 27, 1977 (commonly referred to as the Clean Mater Act).

MPDES means the Rational Pollutant Discharge Elimination System.

Meetly average means the arithmetic mean of samples collected during a period of seven consecutive calendar day, for the purposes of monitoring and reporting.

Monthly average means the arithmetic meen of samples collected during a calendar month for purposes of monitoring and reporting. Alternatively, monthly average may be construed by the 11 inois Environmental Protection Agency to be defined as the arithmetic means of samples collected during any period of 30 consecutive calendar days.

- I. All discharges authorized herein shall be consistent with the terms and conditions of this permit. The rischarge of any pollutant identified in this permit in excess of that authorized shall constitute a violation of the permit on any anticipated facility expansions, production increases, or process modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new MPDE application or, if such discharges will not violate the effluent limitations specified in this permit, by notice to the Agency of such charges. Following such notice, the permit may be revised to specify and limit any pollutants not previously limited.
- in case of conflict between these st idend conditions and any special
 conditions attached to this permit, he special conditions shall
 govern.
- 3. Exempt as otherwise provided in the Permit, all waters of the State thall be and free from unnatural durge or bottom deposits, floating solids, visible oil, odor, unnatural plant or algae growth, unnatural color or turbidity, visible foam or matter in concentrations or combinations tox's or harmful to fiman, animal, plant or aquatic life of other than natural origin.
- Pursuant to Chapter 3, this permit havite modified, suspended or revoked in whole or in gart during its term for cause including, but not limited to, the following:
 - Violation of any terms or confisions of the permit (including, but not limited to, schedule, of compliance and conditions concerning monitoring, antry, and inspection);
 - D. Obtaining a permit by misrepreservation or a various to disclose fully all relevant facts; or.
 - A change in any circumstance that mandates either a temporary or permanent reduction or elimination of the permitted discharge.
- 5. This permit may not be assigned or transferred. In the event of an change in control or ownership of facilities from which the authorized discharges emanate, the permittee shall notify the succeeding owner or controller of the evistence of this permit by letter, a copy of which shall be forwarded to the Agency.
- 6. The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privilenes, not does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.
- The permittee shall allow any agent caty authorized by the Agency and/or the United States Environmental Protection Agency upon the prescritation of credentials:
 - a. To enter the permittee's provises where effluent sources are located or in which any records are required to be kept under the terms and conditions of this cermit.

- b. To have access to and copy at reasonable times any records required to be tept under the terms and conditions of this permit.
- To inspect ut reasonable times any monitoring equipment or monitoring method required to be kept by this permit.
- To sample at reasonable times any discharge of pollutants.
- 8. Nothing in this permit shall be construed to preclude the institution of any legal action or reflere the permittee from any responsibilities, liabilities, or penalities to which the permittee is or may be subject under Section 311 of the PMPCA and shall not be construed to relieve the permittee from civil or criminal penalities for noncompliance.
- Mothing in this permit shall be construed to preclude the institution of any legal action nor relieve the permittee from any responsibilities, liabilities, or penaltier established pursuant to any applicable state law or regulation under authority preserved by Jection 510 of the HMPCA.
- ny owner of any publicly owned or regulated treatment works shall give notice to the Agency of the following:
 - 4. Any new introduction of pollutents into such treatment works from a source which would be a new source as defined in Section 306 of the FMPCA if such source were discharging pollutants directly to the waters of the State;
 - b. Except as to such categories and classes of point sources or discharges which may be specified by the Agency, any new introduction of pollutants into such treatment works from a source which would be a point source subject to Section 301 of the FMPCA if it were discharging such pollutants directly to the waters of the State;
 - Any substantial change in volume or character of pollutants being introduced into such treatment works by a source introducing pollutants into such works at the time of issuance of the permit; and
 - 5 in notices shall contain information on:

The quality and quantity of wastewater to be introduced into such treatment works, and

Any anticipated impact of such change in the quantity or quality of effluent to be discharged from such publicly owned or publicly regulated treatment works.

- 11. If a toxic effluent standard or prohibition (including any schedule or compliance specified in such effluent standard or prohibition) is e-tablished pursuant to Section 307(a) of the FMPCA for a toxic pollutant which is present in the discharge authorized herein and such standard or prohibition is more stringent than any limitation upon such pollutant in this permit, this permit shall be revised by the Agency in accordance with the toxic effluent standard or prohibition and the permittee shall be so notified.
- 12. If for any reason the permittee does not comply with or will be unable to comply with any parameter limitation or other condition as specified in this permit, or should any unusual or extraordinary discharge of waste occur from the facilities herein permitted, the permittee shall provide the Agency with the following information in writing within five (5) days of becoming ware of the condition:
 - A description of the non-complying discharge including the impact upon the receiving water,
 - n. Cause of non-compliance.
 - Anticipated time the condition of non-compliance is expected to continue, or if such condition has been corrected, the duration of the period of non-compliance.
 - Steps to be taken by the permittee to prevent recurrence of the condition of non-comp (a) **.
 - Steps taken by the pensitive to reduce and exceptions non-compliance.
- 13. In diversion or bypass of my discharge from the treatment works by the permittee is prohibited except: (1) where unavoidable to make the loss of life or severe property damage my facilities recessing recombiling a severe property damage my facilities recessing the combilines with the terms and conditions of this permit. The permittee shall notify the Agency within 72 hours of each "lummion to bypass in accordance with the procedure specified in Standard Condition 12 for reporting non-compliance. The permittee shall within 30 days after such incident submit for approval a plan to prevent recurrence of such incidents.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM APPLICATION FOR PERMIT TO DISCHARGE - SHORT FORM C

To be filed only by persons engaged in manufacturing and mining

FOR AGENCY	APPLICATION NUMBER								
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USE			DA	TE	REC	EIV	ΕO		
		2	9		110	2	-	21	2
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Do not attempt to complete this form before reading accompanying instructions

Please print or type

1. Name, address, location, and telephone number of facility producing discharge

	. A. Name	ansteel	Inc.						
	B. Mailing add							•	
			Number						
ŗ٧	2. Cit	y North	Chicago			3. Stat	e <u> </u>	inois	
_	4. Cou	nty <u>Lak</u>	:e			S. ZIP.	6006	4	
<u></u>	C. Location.								
\circ	1. Str	eet <u>s</u>	ame						
		-				3. Coun	ty		
•							•		
4.5	D. Telephone N		<u>/ 689-4</u>	900			•		
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		4030						RE	CEIV
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3. Humi	ber of employees		675					00	T 2 1978
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ASK	ed for below. At	ter complet	ing these it	ems, please	complete the	he date, ti	tle,	INF)L3 ()
and	signature block hout completing	s below and	return this	form to th	e proper re	viewing off	ice		
H. C.				•		•			
	A. Name of org B. Facility re				y waste				
	*						•		
	•								
							•		
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6. Pri	ncipal process_	Redi	100-199	200-499	Amou 500-999	1000- 4999	5000- 9799	10,000-	or more
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6. Pri	ncipal process _ imum amount of p Basis	Redi	100-199	200-499	Amou 500-999	1000- 4999	5000- 9799	10,000-	or more
6. Pri 7. Max	ncipal process _ imum amount of p Basis	Redi	100-199	200-499	Amou 500-999	1000- 4999	5000- 9799	10,000-	or more

KEC STATE	L OF	ا ا	El
OCT			

8.	Maximum	amount of	principal	product	produced	or raw	material	consumed,	reported
	in item	7, above,	is measure	ed in (C)	heck one):	1,44		•	•

A. pounds

B. C tons

C. D barrels . D. D bushels

E. D square feet

G.o pieces or units

H. mother, specify .

DWPC. Permit Section

9. (a) Check here if discharge occurs all year X. or

8. a August

NPDES UNIT

(b) Check the month(s) discharge occurs:

1.0 January

3. m March 2.0 February

4. D April

5. may

6. D June

7.0 July

9. a September

2.02-3

11.0 November

12.0 December

(c) Check how many days per week:

1.01

10. @ October

3.0 4-5 4. 6-7

10. Types of waste water discharged to surface waters only (check as applicable)

	Flow, gallons per operating day						Volume treated before discharging (percent)				
Discharge per operacing day	0.1-999 (1)	1000-4999	5000-9999	10,000- 49,999 (4)	50,000- or more (5)	flone	0.1- 29.9 (7)	30- 64.9 (8)	65- 94.9 (9)	95- 100 (10)	
An Sunitary, daily average							_				
G. Looling water, etc.					х	х					
C; Process water, daily average											
D. Baximum per operation of day for total Control (all types)					х				· · · · · · · · · · · · · · · · · · ·		

11. If any of the three types of waste identified in item 10, either treated or untreated, are discharged to places other than surface waters, check below as applicable.

	Average flow, gallons per operating day									
Waste water is が discharged to:	0.1-999	1000-4999	5000-9999 (3)	10,000-49,999	50,000 or more (5)					
A. Municipal sewer system					х					
B. Underground well										
C. Septic tank										
D. Evaporation lagoon or pond										
E. Other, specify					·					

12. Number of separate discharge points:

B.**X**(2-3)

C. D 4-5

D. O 6 or more

13. Hame of receiving water or waters ==

Pettibone Creek

14. Does your discharge contain or is it possible for your discharge to contain one or more of the following substances added as a result of your operations, activities, or processes: ammonia, cyanide, aluminum, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, zinc, phenols, oil and 8.**)**(no grease, and chlorine (residual). Λ.□ yes

A. a 1

I certify that I am familiar with the information contained in the application and that to the best of my knowledge and belief such information is true, complete, and accurate.

John M. Beyrer

Printed Name of Person Signing

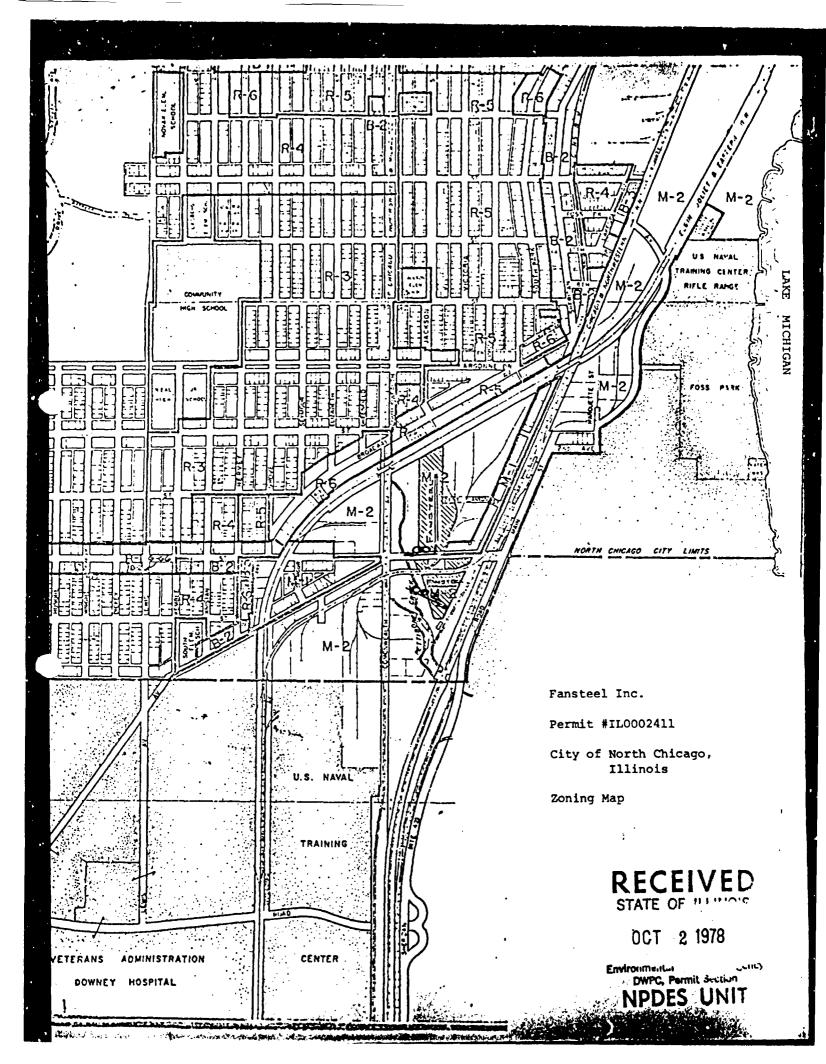
Cate Application Signed

Mgr., Facilities & Environmental Engr'g

Ignature of Applicant

13 U.S.C. Section 1001 provides that:

Whoever, in any matter within the jurisdiction of any department or agency of the United States known his and wilfully fainties, concerts or covers up by any thick, schime, or device a niatenal fuct, or makes my fatae, fictitious, or fraultient statements or representations; or man er at uses thy take wattag or document knowing some to dontent any lates, licitious, of trans. In a statement se entry, shall be fined het mote than \$10,000 or impro



3.0

05

- 3.1 Two (2) discharges
- 3.2 Fansteel Inc.
 North Chicago, Illinois 60064
- 3.3 Industrial
- 3.4 Continuous
- 3.5 42° 19' 18" N. Lat. 87° 50' 38" W. Long.
- 3.6 001 SWh of NWh Section 4 002 - NWh of SWh Section 4 Shields Township Range 12 East of 3rd PM
- 3.7 Lake County
- 3.8 Pettibone Creek 001 & 002
- 4.0 001 at the outfall to Pettibone Creek

 002 in the effluent sampling manhole

42900002(

ILLINOIS POLLUTION CONTROL BOARD November 28, 1972

ENVIRONMENTAL PROTECTION AGENCY.

PCB 72-76

FANSTEEL, INC. and the CITY OF NORTH CHICAGO

OPINION OF THE BOARD (by Mr. Dumclie)

This opinion is in support of an order entered by the Roard on October 31, 1972 accepting a Stipulation and Proposal submitted by Fansteel, Inc. (Fansteel) and the Agency on June 14, 1972 as modified by a letter received October 31, 1972.

Complaint was entered by the Agency against Fansteel and the City of North Chicago on March 1, 1972 charging Fansteel with causing water pollution [Sect. 12(a) of the Environmental Protection Act]; violations of Rule 1, 03(a), (c), and (d) of SWB-14; and violations of Rule 1, 01 of SWB-5 (cyanide discharge) and charging North Chicago with allowing the discharge of the Fansteel contaminants thus causing water pollution. On June 14, 1972 a public hearing was held in North Chicago at which the Stipulation was presented for public comment. There was no adverse comment and in due time the Stipulation was presented to the Board.

Fansteel has two plants in North Chicago employing 700 persons manufacturing electrical contacts using precious metals among other materials. The South Plant is some 65 years old and includes processes of nickel plating, acid cleaning and tumbling and burnishing. The North Plant dates from 1942 and contains processes of metal cleaning, tungsten cutting, wire and tube drawing, tungsten pewder reduction and generates effluents from the boiler house and laboratories.

Effluents from these two plants were discharged to Pettibone Creek containing settleable solids, cyanide, metals, acid and caustic wastes. Biological surveys performed in 1963 and 1970 have indicated detrimental effects from the Fansteel discharges to Pettibone Creek. The turbid wastes from the north plant and the toxic wastes from the south plant affect the north



STATE OF ILLINOIS POLLUTION (IONTROL BOARD

309 WEST WASHINGTON-STREET SUITE 300

DAVID P. CURRIE, CHAIRHAN
DONALD A. HENSS
JACOB D. DUMCLLE

CHICAGO, ILLINOIS 60606

TELEPHONE 312-793-3620

JACOB D. DUMELLE
JOHN L. PARKER
SAMUEL T. LAWTON, JR.

November 29, 1972

Mayor Leo F. Kukla City of North Chicago City Hall North Chicago, Illinois 60064

Mr. Howard R. Slater 120 South LaSalle Street Chicago, Illinois 60603

Mr. Steven P. Davis Greenberg, Keele et al One North LaSalle Street Chicago, Illinois 60602

Mr. Milton Kauffman 1321 Brassic Avenue Flossmoor, Illinois

Ms. Nancy Schaffenacker Environmental Protection Agency 2200 Churchill Road Springfield, Illinois 62706 PCB72-76

ENVIRONMENTAL PROTECTION AGENCY

) FANSTEEL, INC. and the CITY OF NORTH

DEC 3 1972

DIV. OF WATER POLLUTION CONTROL

ENVIRONMENTAL PROTECTION AGENCY

Dear Sirs:

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Enclosed please find certified copies of the Opinion of the Board adopted November 28, 1972 for the above entitled matter.

Very truly yours,

Christan L. Moffett Clerk of the Board

CLM:gn enc.

cc;

H. Sheldon

L. Eaton

T. Immel

F. Crawford

J. Anderson

L. Hudson

B. Pye

RECYCLED PAFER

branch and main trunk of the stream to its mouth at the Great Lakes Naval Training Station Harbor. The reaches of the creek from the south plant outfall to and somewhat beyond Sheridan Road are best described as a biological desert. The creek does not fully recover before it terminates at the harbor. (EPA Statement of September 25, 1972, pp. 9-10).

The Stipulation provides and the Board has ordered that Fansteel will pretreat the South Plant effluent to permit discharge of all of its effluent to the North Shore Sanitary District as specified in Exhibit F of these proceedings within 22 weeks after an Agency permit is issued. Similarly, the Board has ordered that the North Plant pretreat its effluent in order that it may be discharged to NSSD to be done within 26 weeks after the Agency permit is issued.

In first discussing the Stipulation, the Board has two main concerns before approving it. The first concern dealt with the effects of the Fansteel effluent upon the North Chicago sewage treatment plant of the North Shore Sanitary District both as to possible upsets of the biological treatment and possible hydraulic overloading. On July 25, 1972 the Board entered an order requesting additional data from the Agency.

The Agency furnished on September 25, 1972 an extensive theoretical analysis showing that the biological treatment would not be harmed. It justified the additional hydraulic load on the plant in spite of the Board's prohibition of other new connections to it by the fact that this diversion of the Fansteel effluent out of Pettibone Creek would enable that body of water to recover and would eliminate the present health hazard of toxic wastes in the Creek.

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The second concern of a majority of the Board had to do with the amount and nature of the stipulated penalty to be paid. The June 14, 1972 original stipulation provided that Fansteel would conduct certain research on the carbon adsorption treatment of cyanide at the South Plant even though not necessary to permit the effluent discharge to the North Shore Sanitary District's plant. Data on the research was deemed to be of value to the Agency (Para. C). If the expenditures for this research program did not exceed \$25,000 then the difference between the figures would be paid to the State of Illinois (Para. D). The majority of the Board felt that Agency research should not be financed through, in effect, a penalty due the State. And since it was anticipated that, in fact, the research expenditures would exceed \$25,000, therefore no specific penalty would accrue to the State even though damage to Pettibone Creek from water pollution had occurred.

The modified Stipulation of October 31, 1972 provides that Fansteel will pay a penalty of \$20,000 to the State and will in addition perform the carbon adsorption cyanide research. The Board finds the modification entirely satisfactory and commends Fansteel for its offer to advance the waste treatment art by its research.

The City of North Chicago has filed a Motion for Summary Judgment which, in effect, would hold that it is absolved from any responsibility so far as abating pollution emanating from its sewers, as a consequence of the North Shore Sanitary District's alleged preemption of this responsibility. We find that a substantial issue of fact exists as to the role of the North Shore Sanitary District in this respect, which, itself, would preclude the entry of a summary judgment. Secondly, even if this was not so, we do not find North Chicago's contentions persuasive. The ordinance cited by North Chicago does not purport to relieve municipalities of their responsibility. The motion for summary judgment is denied. The mere co-extensive functions of a sanitary district in no way in itself relieves the city from its responsibilities so far as abating pollution from its sewers. See EPA v. City of Champaign, #71-51C, 2PCB 411, September 16, 1971; EPA v. City of Urbana, #71-365, PCB., September 6, 1972. By this holding, we are not precluding the possibility of arrangements between cities and sanitary districts, whereby a sanitary district would assume all responsibility and obligation with respect to sewage generated within a particular municipality, when such arrangement causes the sanitary district to assume this responsibility. However, in the present case, adequate proof of such an arrangement has not been made. Nevertheless. because of the basic agreement arrived at between Fansteel and the EPA, we see no reason for the imposition of a penalty against the municipality ånd none will be imposed.

This opinion constitutes the findings of fact and conclusions of law of the Board.

I, Christan L. Moffett, Clerk of the Illinois Pollution Control Board, hereby certify the above Opinion was adopted on the $\frac{2N^{-1}}{3}$ day of November, 1972 by a vote of $\frac{2N^{-1}}{3}$.

Christan L. Moffett, Clerk
Illinois Pollution Control Board

ILLINOIS POLLUTION CONTROL BOARD October 31, 1972

ENVIRONMENTAL PROTECTION AGENCY

PCB 72-76

FANSTEEL, INC., a corporation, and CITY OF NORTH CHICAGO, a municipal corporation

ORDER OF THE BOARD (by Mr. Dumelle)

The Stipulation and Proposal submitted by Funsteel, Inc. (Funsteel) and the Environmental Protection Agency (EPA) on June 14, 1972 as modified by a letter received October 31, 1972 from Funsteel to the Pollution Control Board is accepted and approved.

The conditions of the Order are as follows:

- 1. South Plant -- Fansteel will install equipment necessary to pre-treat the South Plant effluent as specified in Exhibit-F so as to permit discharge of all of said effluent to the North Shore Sanitary District sanitary sewer system. Said equipment will be installed and made operative within a period of twenty-two (22) weeks after the necessary Permit is issued. The system and timetable are more specifically described in said Exhibit F of these proceedings.
- 2. North Plant -- Fansteel will install equipment necessary to pretreat the North Plant effluent so as to permit discharge of all of the effluent to the North Shore Smitary District within a period of twenty-six (26) weeks after the necessary Permit is issued.
 - . 3. Carbon Absorption System -- Fansteel will:
 - A. Install at the South Plant a carbon absorption system.

- As previously discussed, the parties have determined that such treatment for cyanide is not necessary to permit discharge of the South Plant effluent to the North Shore Sanitary District. However, it is recognized that the installation and operation of such equipment are of interest to the EPA in permitting the Agency to determine the effectiveness of such a system for treating complex cyanide-containing plating wastes. The Agency feels that such information will serve to more effectively review future applieations which may involve similar type wastes. Fansteel agrees that it will continue the operation of the carbon absorption system after such time as the wastes are fully discharged into the North Shore Sanitary District and Fansteel further agrees that it will make available to the EPA in the normal course of reporting for a period of one year all of the data information and results derived from the operation of the system and will allow the EPA to observe and inspect the operation thereafter.
- C. Until completion of the programs outlined in Paragraphs 1 and 2 above, Fansteel will cause its spent acids to be removed from the premises by a licensed scavenger and disposed of in accordance with all existing rules and regulations.

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D. Fanstell will make any necessary piping and plumbing changes in the Plant so as to more expeditional discharge any portion of its effluent to the North Shore Sanitary District on an accelerated schedule. It is to be recognized that this piping may or may not become part of the proposed long-range solutions to the problem and, therefore, are considered to be an additional expense over and above those previously mentioned.

The cost of installing and operating the solutions described in this paragraph 3 is estimated in Appendices i through IV of these proceedings.

4. Fansteel will pay to the Treasurer of the State of Illinois, pursuant to Title XII Section 42 of the Environmental Protection Act, the amount of \$20,000. Such payment shall be madeby check to the Fiscal Services Division, Illinois Environmental Protection Agency, 2200 Churchill Drive, Springfield, Illinois 62706.

- Fansteel shall apply for all necessary Permits from the EPA for the proposed medifications described herein.
- Fansiell will provide monthly reports to the EPA by the 20th of each month, describing the compliance made during the preceding month.

IT IS SO ORDERED.

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I, Christan L. Moffett, Clerk of the Illinois Pollution Control Board, hereby certify the above Order of the Board was adopted on the lay of October, 1972 by a vote of 5-0

Illinois Pollution Control Board



DEPARTMENT OF THE ARMY CHICACO DISTATUV. CEARS OF EMBINEERS TIBRATO NECESTACE MYDEET CHICAGO, ILLINOIS COOD4

16 May 1972

U. S. Davidentatal Protection Agency Office of Water Program, Region V AFAII: Pownik Enchion 1. North Utcher Delvo Chicago, Mlimaio 60606

. ATTN: Linda Huff

Doar Sir:

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The following documents relating to application for Federal permit No. IL 070 0X3 2720467 are attached for your consideration and appropriate action:

[X] III Form 4345 - Page 2	
/X/ . [] Form 4345-1- Pgs 1 - 4 (001), 1,2,4 (002-003), Part B(001-00)	3)
[] State certification or description of impact on water quality.	
X/ Duchings	
7 Public notice issued by this office.	
X Outrall Locations, Implementation Schedule, Block Diagram.	
It is requested that you advise this office by	
whether promoted discharge or deposit may affect the quality of waters	
of another Duate (as required by section 21(B)(2) of the Federal Water	

the meaning, content. Please provide by and application of water quality standards applicable to the proposed discharge or deposit and the impact which the proposed discharge or deposit may, or is likely to, have on applicable water quality standards and related water quality considerations.

Your cooperation in this matter is appreciated.

Pollution Control Act, as amended).

7 Incls us imáichtaí above MORTON E. SAKTON

Sincerely yours,

Chief, Operations Division

OUTFALL LOCATIONS

Fansteel Electrometals Division North Chicago, Illinois 60064

Reference Point:

0

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0

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4

N.E. corner of N.W. 1/4 of S.W. 1/4 of Section 4 - T44N, Range 12 East of the Third Principle Meridian

Distance from Reference Point:

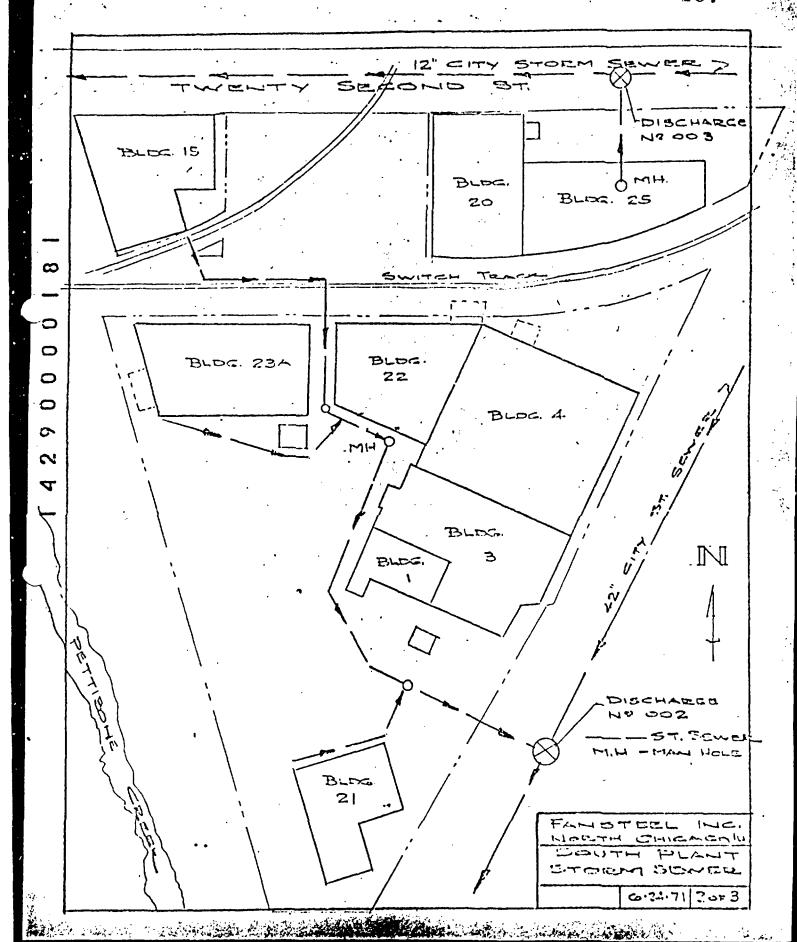
Outfall No. 1 - 656' W Outfall No. 2 - 632' SSW Outfall No. 3 - 134' W

Applicant's Information Referred to as "Confidential"

In Section II, ENG Form May 71 4345-1 Items 14 and 16 refer to "Confidential Answers," which are not included in this transmittal. EPA is restricted from disseminating "Confidential Information" received under pledge of confidence. Your attention is invited to USC Title 18, paragraph 1905.

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DEPARTMENT OF THE ARMY, CORPS OF ENGINEERS

APPLICATION FOR PERMIT TO DISCHARGE OR WORK IN NAVIGABLE WATERS AND THEIR TRIBUTARIES

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SECTION I. GENERA	L INFORMATION			1. State <u>I</u> <u>L</u>	Applicate D. J. D. Div.	on Number (Dist.	to he assigned 2.1 Type	d hy Sarns of Engineers
2. Name of applicant at	nd title of signing of	ficial	FANSTEEL			··		
, . .	·		Vice Pre	sident,	Admini	stration	_an:LFi	nance
3. Mailing address of ap	plicant			······································		—) — 		
-			Fansteel Number U	<u>Inc.</u> ne lanta	lum Pla	ice		
-			North Ch					
_	-							
<u>د</u> –								
4. Name, Eddress, telepi								espandence.
_			er. Assist. lectrometa			ral Man	ager	
P -			Tantalum		±011		·	
D -	Mort	h Chic	ago. Illino	ois 600	64			
_	(312) 689-	4900					
2			·- • ·- · · · · · · · · · · · · · · · ·					
entitled "Confider mercial or financial fidential treatmen attached sheet. He information. b. The applicant shallow. If additional space that sheet the item d. Orawings required if applicable, copie of Section II below. Fees If any discharge or additional point of Signature a. If a discharge is in an official of the reby the principal cathe application mub. If no discharge is in the application mub.	intiel Answers" must all information of a cit can be considered to inwaver, in no event will furnish such supple its needs of for a common numbers to which a by items 20 and 21 yet, the additional information of discharge or depositional of discharge or depositive of any application and of certified and policial interest of any application and of certified and policial interest of any application and of certified and applications to signed by a per involved, an application and by a per involved, an application and of certified and applications to signed by a per involved, an application and of certified and applications are applications and applications and applications are applications and applications and applications and applications are applications and applications and applications are applications and applications and applications are applications and applications are applications and applications and applications are app	pa used to unfidential perly for the vill identification of the vill identification of the vill be a president to the vill be vill	set out information in attries. The information for its information as is received to any item or provided to this appropriate of \$100 miles of \$100 miles or above who repoplications on ball or or the propriet or signed by the appropriate or signed appropr	on which is committee must be submit and the control of the contro	projected buckers y incident y incident y incident of a District Eritech a sher papers which deconfidential ited with the day the project on	y the application request of confidence in order or order order or order or	nt to contitue number to contidentiality originality recognized as for to evaluate additional Informatisched to cality impact sheet describe n. An additional trive officer and a partnership iscussed in the	ormation." Indicate on this application include, fiscalitem 22 and Item 10 and in "a" whove. Inal \$50 is required for each of that corporation or by diwho has been designated or a sole proprietorship, in pamphlet.
18 U.S.C. Section Whoever, in any m covers up by any to or uses any falso w	polication, and that 1001 provides that: atter within the jurie rick, schema, or dev- riting or document k aprisoned not more t	to the best ediction of ce a mater thowing sa than five y	of my knowledge any department of lai fect, or makes into contain any	and belief su ir agency of the any false, fict	sh informa Signatur Signatur Doubled Sitious or tri	e of Applicantation states the st	at single services and wilfurents or rep	illiar with the information faccurate. Accurate. Illy falsifies, conceals or presentations, or makes shall be fined not more
Date received, form Date received, form Date received, form but without cart Date received, form Date of Cert./Lir.	not complete complete ilicate		T CORPS OF ENG	Are discharg Major? Date sent to Date sent to	Structure M EPA, form EFA, NOA	not complet A, D/I, AEÇ,		

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, Date	1 U N 3 0 7	7 1	74	(Office use only)	2720467
. Chrek type of ap	plication: a. Original		b. Revision	7. Number of original app	dication .
Name of facility	where discharge or cons		ur. ilengo Plant	·	
• -	3113 633		Trento Trans		
. Full mailing addr	ess of facility named in		nctals Division		
-		One Tantal			
_	North C	hicago, Il	linois 60064		······································
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<u> </u>					
0;-Names and mail	ing addresses of all adjoin	ning property ov	•. •	lso adjoins the waterway.	
-		 	त्र के अन्यक्षीकोष्ट्र स्थानकोष्ट्रीकार्यः		·
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	to the nature of the prop	,	Section .	with Disabases .	h Discharge only (V)
a. Drodyi	porvry in nature, estima	struction	c. Construction	Mitty Discussing []	b. Discharge only X
2. It settenly is turn	porary in nature, estima	10 its duration in	montas,		
If application is f	or a discharge:		Part of the second	13.4	
3. List intake source	rs.				
	Source	. 4		l Volume in Million Per day or Fraction Thereof	
Municipal	or private water supply s	Iystem		3_ 6_	•
Surface wa		•			
	11 P F	- ,			·
Ground wa					
Ground wa Other				•	
Ground wa Other	sage within the plant			d Volume in Million	
Ground wa Other				d Volume in Million Per day or Fraction Thereof	
Ground wa Other	sage within the plant			Per day or Fraction	
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Ground wa Other 1. Describe water us Cooling wa Boiler Feed Process wa	Type Type divator			Per day or Fraction	
Ground wa Other I. Describe water us Cooling wa Boiler Feed Process wa Sanitary sy	Type Type divator			Per day or Fraction	
Ground wa Other 4. Describe water us Cooling wi Boiler Feet Process wa Sanitary sy Other	Type Type ator d water ator stor	, , , , , , , , , , , , , , , , , , ,	Gallons I	Per day or Fraction	
Ground wa Other 4. Describe water us Cooling wi Boiler Feet Process wa Sanitary sy Other	Type Type divator	Ihen into navigob	Gallons i	Per day or Fraction Thereof	
Ground wa Other 4. Describe water us Cooling wi Boiler Feet Process wa Sanitary sy Other	Type Type ator d water ator stor	then into navigob	Gallons i	Per day or Fraction Thereof O O 3 O O 1 2 7 3 O 8 3 I Volume in Million Per day or Fraction	
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precise location of the activity must be described		(Cirica ara cing)	2720467	স হার্
Name the corporate boundaries within which the activity will occur.	structures exist or the	,	•	
16. State Illinois	17. County Lake	City or Town 18. North C	hicago	÷
Name of waterway at the location of the activity				
19. Municipal Storm Se	wers Which Outfall	into Pettibone Cr	cek	
Maps and sketches which show the location and and non-structural points of discharge, must be	character of each structure or attached to this application,	ectivity, including any and all o	outfall devices, disparsive de	
For construction or work in navigable waters for fully shown on detailed plans to be submitted vition (Section II of this form) has been submitted.	rith this application. Note on th	ight under 33 U.S.C. 403, the interest of the drawings those structures for	r which separate discharge in	iforma-
List all approvals or denials granted by Federal, described in this application.	interstate, State or local agenci	es for any structures, construc	tion, discharges or deposits	
Type of document	ld. No.	Date Issu	ing Agency	
Certification applie	d for to Illinois	Protection Agency .	June 30, 1971.	
(Note: Preliminary p	lan for water polli February 26, 1971)	ution control file	i with	•
	rebidary 20, 1971)		•	~~• V
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				3.3
Check if facility existed or was lawfully under c	onstruction prior to April 3, 19	70.		 -
. If dredging or filling will occur: State the type of materials involved, their volum	e in cubic yards, and the propo	sod method of measurement.		<i>د</i> ،
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i. Describe the proposed method of instrumentation determina its effect upon the waterway.	n which will be used to measur	e the volume of any solids whi	ch may be deposited and to	
Periodic sampling at	d analysis by Stand	dard Methods.		
			•	
. State rates and periods of deposition described i	n Item 25.			.;
See Section II, Tabl	.е Л.			
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FING FORM

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IMPLEMENTATION SCHEDULE

In the past several months, progress made toward effluent control has included:

- 1. An expanded monitoring program with more frequent sampling and more comprehensive and sophisticated analysis using atomic absorbtion.
- 2. Rearrangement and modernization of the processing operations contributing to Discharge S/N 002.
- 3. Definition of a treatment system for Discharge S/N 002 process operations.
- 4. Substantial progress toward identifying and solving problems associated with Discharge S/N 001.

A revised implementation plan has recently been submitted to Illinois Environmental Protection Agency. It proposes:

 Installing an alkaline continuous precipitation system for the plating and cleaning operations now contributing to Discharge #002. It is planned that Discharge #003 will be discontinued, and treated with this system also.

Effluent will be treated to the sanitary sewer standards of Illinois Technical Release 20-22 and discharged to the sanitary sewer system. Dewatered sludge will be scavenged. We expect the system to be operational 29 weeks after plan approval.

2. Continuing the program of identifying and quantifying problems associated with Discharge #001. An implementation plan will be submitted to the EPA in approximately 10 weeks. Our goal here also will be to divert process water, pretreated as required, to the sanitary sewer.

.,	SECTION II.	LANT PROCESS AND DIS	SCHARGE DESCH	MPITUN	11 11 11 11 11	2.19
•	1. Discharge discribed below is a, Present D. Proposed new or changed	2. Implementation schedule	(Office use only)	27204	5'7	
•	Name of corporate boundaries within which the point		<u> </u>	1	harge Serial No	
	State	County		City or Town	001	
	3 <u>Illinois</u>	4 Lake		s. North Ch	icago	<u>-</u>
	State the precise location of the point of discharge.	D Name of w	aterway at the point	of duchage		
-	7. Latitude 4 2 Degrees: 1 9 Min; 1	L 8 Sec. N		-		• . •
į	8. Longitude 8 7 Degrees; 5 0 Min; 3	Mun S	lcipal Storm	Sewer		
	10. Has application for water quality certification or de		,		. •	**.
		Check if certificate is attached to form	•	suing Agency		
	<u>J U N 3 0 71</u>		Illino	is Environme	ental Pro	tec-
ㅓ	11. Narrative description of activity (include terms of g	eneral 4-digit Standard Industr	ial Classification, and			<u>.</u>
7	1. Manufacture of ele					
	<u>include powder red</u> and piercing.	luction, powder pre	ssing, sinte	ring, swagir	g, cutof	£
_	2 1/	6				
(2. Manufacture of non drawing, rolling,			Processes	<u>include</u>	
7						
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ا - ط		<u> </u>				
	12. Standard industrial classification number.	13. Principal product.	14	. Amount of princip	el product pro:	fuced
٦	1. 3699	1. Electrical	Contacts			
ग	2. 3356	2. Wire, Foil	and Tubind	·		 -
\dashv		- Wile, Folk	and Tubins.			
1	15. Principal raw material.	16. Amount of principal raw consumed per day.		. Number of batch o	lischarges per d	3 Y.
ł	1. Oxides of Tungsten		n provided			•
ĭ	2. Tantalum	& on "Confid 2. Answers" 5				
				a disabases of as	<u></u>	
	18, Average Camons per paten disenarge.	Date discharge began.		e discharge will be;	n. •.	
		AUG	<u>56</u>	— _	day	
ł	21, Describe waste abatement practices.					
	1. Recirculating cools	ing water system fo	or cutoff ope	rations.		
	 Separate system for cleaning solutions. 				<u>):</u>	
	Process water	discharge - 75,000	cal./day			
			 	·· ···· ····		
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1,**4,**58 %

j.				· ·	11.75 X 13.75 L					, i			٠	
	22. PHYSICAL DESCRIPTION OF INTAKE WATER AND DISCHARGE													
	Intake		,	Discharge (Office use only)					71117			. ,		
			Discharge						2720	Discharge S	erial No.		<u> </u>	
						•				001				
	44	MI AREAL		ALKRACK DAIL	E CORRADIANCE SERV	O.E.	12	/	2.0					
	TATACA.	Aten.	, \	AACK.	To Think		PATA	Ž.	TAKOLKACA	No. 1	AINCOUS .			
	William War			OAI	C. C. L.		\	16	136	1 7	Salor)			
	Parameter				2 / 3	>		\ \		. \	To W	\		
	and (Code)	(1)	7	(2)	(3)	(4))	otin oti	(5)	(6)	<u> </u>	(7)		
	Flow (Gallians per day) 00056	260,000	, .		200,000	130	,00	00	300,000	MNLY			•	
ຖ	pH			· · · · · · · · · · · · · · · · · · ·	N.		<u> </u>	·				_		
7	004 00	7.5		1.	8.1	6	.5		10.0	WKLY				
4	Temperature (Tinter) (°F)			•	3.55									
٦	.402 3	36.20			50 •	4	10		60	(Est.)			· 	
d	Temperature (Summer) (°F) 74027	52.95			70	. 6	0		80	(Est.)				
1	23.			DIS	CHARGE CON	TENT	S		······································					
4		5 F AMAGE 5 F								Ę	1			
4	PARAMETER	PRESENT	ABSENT	PA	RAMETER		PRESENT	ABSENT	Ρ,	ARAMETER		PRESENT	ARCENT	
4	Color 00030		X	Aluminum 01105				x	Nickel 01067			 	X	
+	Turbedity 00070	x	\dagger	Antimony 01097	***			X	Scienium 01147				X	
1	Radioactivity 74050	——— <u>"</u>	x	1 4				Х	Silver 01077	 	-	<u> </u>	X	
ŀ	Hardness 1900		x	Beryllum	· · · · · · · · · · · · · · · · · · ·			х	Potassium 00937				x	
T	olids 03500	х		Barium 01007	· · · · · · · · · · · · · · · · · · ·			X	Sodium 00329				X	
- 1	Ammonia 00510	X		Baron 01022				χ	Titanium 01152					
	Organia Mitrogen 06505		x	Cadniium 010 '7				٧	Tin 01102				7.	
	Nitrate 00520	х		Calcium 00016			х		2 inc 01092				X	
	Nitrite 006 15		X	Cobalt 01037				X	Algreides 74051					
	Phachlarus 00063		x	Chromium 01934				Х	Oil and Greate 00550				Z	
	Sulfata COS 45	х		Copper 01042			X		Francis 32730				X	
	Sulfide 00743		X	Iran	· · · · · · · · · · · · · · · · · · ·		X		Surfactants 30260				::	
	Suff.f2 00743		х	Lead 01051				Х	Chlorinated H 74052	Aquesipous			Z	
	Bromuse 71870		X	Magnasium 00127				Z	Pasticides 74053					
	Chloride 00949	Х		Manganese 01055			.	X	Fecal Streptod 74054	occi Bacteria		ı	::	
	Dysnicie 20720	X		Microury 71900	 	i		•;	Coliforn Beet 74056	ria				
\mathcal{F}	Flueride XXX51	x		Malvudenum M1092	 -	1	-	×		· 			- 1	

	H: · · šī	Il known hazardous or potentially hazardous substances	in Your F	lant beer	n inventoried?
		X Yes No			2720457
24b.		have stops been taken to insure that there exists no possicharge?	ibility of	any such	known hazardous or potentially hazardous substance enterin
	•	X Yes No			•
25, 1	Semarks.				,
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					f all applicants. Those applicants whose discharge results from
an a: weil,		luded within any of the Standard Industrial Classificatio	n Code (SIC Code	categories listed below must complete Part A of this form as
-					
4	•	CRITICAL II	IDUSTI	RIAL GI	ROUPS
SIC	. 098	FISH HATCHERIES, FARMS, AND PRESERVES	SIC	285	PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS
SIC	10-14	DIVISION B - MINING	SIC	2871	FERTILIZERS
SIC	201	MEAT PRODUCTS .	' SIC	2879	AGRICULTURAL PESTICIDES, AND OTHER AGRI-
SIC.	202	DAIRY PRODUCTS		• :	CULTURAL CHEMICALS, NOT ELSEWHERE CLASSIFIED
SIC O	203	CANNED PRESERVED FRUITS, VEGETABLES (EXCEPT SEAFOODS, SIC 2031 AND 2036)	SIC	2091	ADHESIVES AND GELATIN
ŞIC	2031,	CANNED AND CURED FISH AND SEAFOODS;	SIC	2892	EXPLOSIVES
	2036	FRESH OR FROZEN PACKAGED FISH AND SEAFOODS	SIC	29	PETROLEUM REFINING AND RELATED INDUSTRIES
SIC	204	GRAIN MILL PRODUCTS	SIC	3011, 3069	TIRES AND INNER TUBES: FABRICATED RUBBER PRODUCTS, NOT ELSEWHERE CLASSIFIED
S IC	206	SUGAR	'sıc	3079	MISCELLANEOUS PLASTICS PRODUCTS
61C	207	CONFECTIONARY AND RELATED PRODUCTS	SIC	311	LEATHER TANNING AND FINISHING
SIC	203	BEVERAGES	SIC	32	STONE, CLAY, GLASS, AND CONCRETE PRODUCTS
SIC	209	MISCELLANEOUS FOOD PREPARATIONS AND KINDRED PRODUCTS	SIC	331	BLAST FURNACES, STEEL WORKS, AND ROLLING
SIC	27	TEXTILE MILL PRODUCTS			AND FINISHING MILLS
IC	23	APPAREL AND OTHER FINISHED PRODUCTS	SIC	332	IRON AND STEEL FOUNDRIES
•		MADE FROM FADRICS AND SIMILAR MATERIALS	SIC	333, 334	PRIMARY SMELTING AND REFINING OF NON- FERROUS METALS: SECONDARY SMELTING AND REFINING OF NONFERROUS METALS
SIC	242	SAWMILES AND PLANING MILLS	SIC	336	NONFERROUS FOUNDRIES
SIC	2432	VENEER AND PLYWOOD	SIC	347	COATING, ENGRAVING, AND ALLIED SERVICES
SIC	2491	WOOD PRESERVING	SIC	3 5	MACHINERY, EXCEPT ELECTRICAL
s:c	26	PAPER AND ALLIED PRODUCTS	SIC	36	ELECTRICAL MACHINERY, EQUIPMENT, AND
SIC	281	INDUSTRIAL INGRGANIC AND ORGANIC CHEMICALS (EXCEPT SIC 2318)			SUPPLICS
SIC	2818	INDUSTRIAL ORGANIC CHEMICALS	SIC	37	TRANSPORTATION EQUIPMENT (EXCEPT SHIP BUILDING AND REPAIRING, SIC 3731)
SIC	282	PLASTICS MATERIALS AND SYNTHETIC RESINS, SYNTHETIC RULLER, SYNTHETIC	SIC	3731	SHIP BUILDING AND REPAIRING
		AND OTHER MAN-MADE FIBERS, EXCEPT	SIC	491	ELECTRIC COMPANIES AND SYSTEMS
		GLASS	SIC	493	COMBINATION COMPANIES AND SYSTEMS
SIC	283	DRUGS			1
SIC	284	SOAP, DETERGENTS, AND CLEANING PREP- ABATIONS, PERFUMES, COOMETICS, AND OTHER TOILET PREPARATIONS			

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Printe Submission of Part F on page 3 shore.)	, is tensuri	ed of all ap	plicants wh	ose process	es ara tistac	•	use only)		7.4/1.	,	
·			•••				•		Discharg	ge Serial No 1	•
		INFOR	MATION	REQUIRE	הג אח ם	ECIFIED	NOUSTR	IES			
touke						Discharge					
PARAMETER AND COLE ALKALINITY (11 CA CO.)	Collinate States	ANA TINE AND	Ara+ CCISCOS COS COSTOS	CONCER ON CONTO	ALE FRANCION	RACE POLINO	SINFLE	FACCUENC	15 THO 0 1.7 NO 1.7 NO 1.7 S 15	oring to the second	
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ALKALINITY (45 C4 CO3)	9.8		195 (e)		330	130.53	220.5	AVER 	Single	Stan- dard Method:	ASS
0.D. 5-DAY 00310	2		15 (e)		25	10.0	16.9	AVER	Single	11	ABS
CHEMICAL OXYGEN DEMAND (C.O.D.)	119		336 (e)		568	224.2	379.0	AVER	Single	"	ABS إ
TOTAL SOLIDS	165		858	1,450	\	463	782 .	Aver,	MKTA	11 -	REC
TOTAL DISSOLVED SOLIDS 70300	162		689	1,164	·	401	735 -	AVŁR	MALY	11	REC
TOTAL SUSPENDED SOLICS	3		431	728-	->	62	105	AVER	<i>lik</i> ty	11	REC
TOTAL VOLATILE SOLIOS	31		120 (e)		20	79.0	13.35	AVER	Single	"	ABS
AMMONIA (35 N) 60010	10		0./0 [] (e)		∠0.2 □	0.10 £1.120	∠0.2 26.14	AVER	Single	"	λΞS
KJCLDAHL NITEGGEN CGG7S	<.14	- 1	(e) 10		17	7.47 16254	13 1:23	AVER	Single	"	ABS
NITEATE (46%) 00520	-1 5		8 (e)		13.5	5.3	8.96	AVER	Single		AES
PHOSPHORUS TOTAL (45 P)	-0-		0.51 (e)		0.36	0.34	0.57	AVER	Single	11	/2S

Submission of Part A is required of all applicants whose processes are fisted in page 3 above.)

(Office use only)

2720467

Discharge Serial No.

001

INFORMATION REQUIRED OF SPECIFIED INDUSTRIES

	INFURNATION REQUIRED OF SPECIFIED INDUSTRIES											
	Intake	•					Discharge					·
	PARAMETER AND COLE DISCO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											
	PARAMETER AND CODE	ATION (1) FATO	47.EA	10N (3)	ON L	(5)	(6)	5 (7)	(B)	(9)	(10)	(11)
ر د	ALKALINITY (as Ca C	9.8		195 (e)		330	130.52	220.56	AVER	Single	Stan- dard Methods	ABS
- /	B.O.D. 5-DAY 00310	2		15	:	. 25	10.0	16.9	AVER	Single	и.	ABS
2	CHEMICAL OXYGEN DEMAND (C.O.D.) 00340	119		336 (e)		568	224.2	379.0	AVER	Single	"	SãA
0	TOTAL SOLIDS	165		858	1,450	\	463	782	AVER	AITA	11	REC
7	TOTAL DISSOLVED SOLIDS 70300	162		689	1,164		401	735	AVŁR	WKLY	**	REC
	TOTAL SUSPENDED SOLIDS 00530	3		431	728-	->1	62	105	AVER	KKTA	11	REC
1	TOTAL VOLATILE SOLIDS 00505	31		120 (e)		20	79.0	13.35	AVER	Single	**	ABS
	AMMONIA (as N) 00610	.10		23 (e)	/	39	15.50	26.14	AVER	Single	"	ASS
	KJELDAHL NITROGEN	V (.14		16 (e)	•	27	10.64	17\98	AVER	Single	"	AIS
	NITRATE (AS N) 00520	.15		8 (e)		13.5	5.3	8.96	AVER	Single	"	<u> </u>
	PHOSPHORUS TOTAL (as P) 00065	-0-		0.51 (a)		0.86	0.34	0.57	AVER	Single	"	12.5
	ENG FORM	•	(0) -	ostimat.	ad							

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'(e) - estimated

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PARTE BEDISONANGE DESURINGION (Office use only) (Note: Subminion of Part B is required of all applicants who are also required to submit Pert A. Only these parameters specifically indicated in the instructions are to be reported by a particular industry) Fansteel Inc. Discharge Serial No. Electrometals Div. - North Chicago Application - 112720467 001 PHYSICAL AND BIOLOGICAL PARAMETERS OF INTAKE WATER AND DISCHARGE (See Table B-1) B-1. Intake Discharge CONTINUOUS MONITORING · SAMPLE FREQUENCY AVERAGE IDAILY OPERATING VEAR) COPERATING VEAR) UNTREATED Wrane Waren INTAKE WATER PARAMETER (1) (2) (3) (4) (5) (6) (7) AND CCCE COLOR 0 15 A **000**80 PtCO Units) SPECIFIC 0 325 A CONDUCTANCE 480 250 **Ç**0€95 3 25°C) <u>(e)</u> TURBIDITY 0 90 A (Jackson Units) FECAL STREPTOCOCCI . PACTERIA 74054 FECAL COLIFORM **BACTERIA** 74055 TOTAL COLIFORM BACTERIA 1056 Col (6) Sample Frequency: 0 indicates single sample.

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(Office use only)

Fansteel Inc.
Electrometals Div. - North Chicago
Application #IL2720467 . . .

Discharge Serial No.

	001										
Б-2.	CHEMICAL PARAMETERS OF INTAKE WATER AND DISCHARGE (See Table 8-2)										
letake	Discharge										
	LAND INTAKE NA	TER NEW PAR	PLACE SOLVE	CAIL SALAR POLITICS AS	A DAY	SA TOUNDS AND ANTON	SAN ACTION A DAY	NTINIO OF ANA	5.00	TOAING	
PARAMETER AND CODE	(1)	(2)	(3)	(4)	(6)	(6)	(7)	(8)	(9)		(11)
ACTOMY (# CFCO ₃) 00435 (Mg CaCO3/liter)	4		18 (e)	·	. 30	12	20	A	0	s	A
CARBON (T.O.C.)											
TOTAL HARDNESS		·									
MATERITE (12 N)											
ORGANIC NITROGEN 00605											
105PHORUS-09THO (cs P) 70507 Eg/1	<.01		0.45 (e)		0.79	.31	.53	A	0	S	
SULFATE 00345 mg/l	32		.22		.37	.15	.25	À	0	s	À
SULFIDE 00765 mg/1	<1.0	•	<1.0		<1.7	<1.0	۷1.7	A	0	s	À
SULFITE 60740											
enomics mg/1	Z1.0		(1. 0		< 1	ベニ・ウ	ζ1.?	2.	-	: :	

(Office use only) .Fansteel Inc. Electrometals Div. - North Chicago Application #IL2720467 Discharge Serial No. 001 B-2. (cont.) CHEMICAL PARAMETERS OF INTAKE WATER AND DISCHARGE (See Table B-2) Discharge Intaks OAIL VAVO. CONCENTRATION UNTREATED INTAKE MATER NATINGUA POLINOS PER DAY MAXIMUM CONCENTRATION -MAXINDIA POUNDS PER DAY AVCDAGE BUNDS PER DAY CONTINUOUS NO. II TORING TREATED INTAKE WATER Lietioo or analysis S. A. E. R. COURTER Say The Tape PARAMETER (8) (3) (5) COND CODE (1) (2) (4) (6) (7) (9) (10) | (11) .2.8 12.9 22 8.6 14.6. A 0 S CHLORIDE A . mg/1 _00940 (e) CYANIDE mg/1 **<.**02° <.09 .06 **<.**02 <.03 S A W A (e) DUONIDE mg/1 く1 1 **【1.**7 S **4** 1 A 0 À 00951 (e) **<1.7** 0 ALUMINUM-TOTAL 375 .640 150 250 .425 A 0 S **4**105 (e) ug/1 ANTIMONY-TOTAL Q1037 ARSENIC-TOTAL 01002 BARIUMITOTAL G1007 BERYLLIUM-TOTAL 01012 **EORON-TOTAL** 01C22 CASMIGNITOTAL < 50 ₹.035 100 **<** 50 **<.**17 01027 ug/1 (e)

(Office use only) Fansteel Inc. Fansteel Inc. - Electrometals Div. - North Chicago -Application #IL2720467 Discharge Serial No. 001 CHEMICAL PARAMETERS OF INTAKE WATER AND DISCHARGE (Sce Table B-2) B-2. (cont.) MAXIMUM POUNDS PER DAY Discharge Intsks CAILY AVO. CONCENTRATION UNITAGATEO INTAKEMATEA MASIMUM POUNDS PER DAY AVERAGE POUNDS PER DAY MAXIMUM CONCENTRATION 13' CONTINUOUS PROMITORING TREATEO INTAKE MATER SAMPLE FRE CUENCY SANARANA PARAMETER 85 (3) 35 c 20 W. (8) AND CODE (1) (2) (8) (7) (9) (10) (11) -1. Al these 38 K . . . STATE OF THE CALCIUM-TOTAL 92.5 A 48 ··· . 32.1 -054 · A 0 S 00916 mg/1 ું√.081 A (e) 160 CHROMIUM-TOTAL > ...20 N.D. - 120 🔆 80 S .134 A W A -41034 ug/1 (e) COBALT-TOTAL 17 ₹1037 112 the second 1.1.32. COPPER-TOTAL - 🛷 7.860 **40** 510 340 .574 A W S A 01042 ug/1 ₹-(e) Mr. St. 1,41 IRON-TOTAL 60 180 120 .206 Α 0 S .310 A 01045 ug/1 (e) September 1 . .328 LEAD-TOTAL **<** 100 S 195 130 .219 A 0 Ä 01051 ug/1 (e) MAGNESIUM-TOTAL 13.45 21 36.7 14.4 24.5. A 0 S ٨ 00927 mg/1 (e) 100 30 MANGANESE-TOTAL cc • 133 60 .100 W S Α A 0:055 43/1 (e) く1 MERCURY-TOTAL 人0.5 **<.001** く.1 **<.001** 0 S 71900 ug/1 (e) 🔫 MADLY SOCIUM TOTAL 01662

ENVIRONME

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION V

T NORTH WACKER DRIVE
CHICAGO, ILLINOIS 60606

MARINED

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

FEB 22 1974

Mr. John N. Devlin Vice President, Administration and Finance Fansteel Inc. Number One Tantalum Place North Chicago, Illinois 60064

Re: NPDES Permit
No. IL 0002411

Dear Mr. Devlin:

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Your application IL 070 0X3 2 720467 for a National Pollutant Discharge Elimination system (NPDES) Permit has been processed in accordance with Sections 402 and 405 of the Federal Water Pollution Control Act Amendments of 1972, (86 Stat. 816; Public Law 92-500, 33 U.S.C. 1251 et seq.).

The enclosed NPDES Permit covers your operations which discharge into the Pettibone Creek at North Chicago, Illinois. All discharges authorized from this facility shall be consistent with the terms and conditions of this Permit.

Very truly yours,

ORIGINAL SIGNED BY JAMES O. McDONALD

James O. McDonald Director, Enforcement Division

Enclosures
Permit
Reporting Forms

cc: Dr. Richard Briceland, Director
Illinois Environmental Protection Agency, w/Permit

Permit No. IL 0002411

Application No. IL 070 0X3 2 720467

AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq; the "Act"),

FANSTEEL, INC. (NORTH CHICAGO PLANT)

is authorized to discharge from a facility located at

Number One Tanalum Place North Chicago, Illinois 60064

to receiving waters named Pettibone Creek via the municipal storm sewer system

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I, II, and III hereof.

This permit shall become effective on the date of issuing authority's signature.

This permit and the authorization to discharge shall expire at midnight, September 1, 1978. Permittee shall not discharge after the above date of expiration. In order to receive authorization to discharge beyond the above date of expiration, the permittee shall submit such information, forms, and fees as are required by the Agency authorized to issue NPDES permits no later than 180 days prior to the above date of expiration.

Signed this

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FEB 22 1974

Director, Enforcement Division

Permit No. IL 0002411

PART I

- A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (INITIAL)
 - 1. During the period beginning on the effective date of this permit and lasting until April 30, 1974, the permittee is authorized to discharge from outfall(s) serial number(s) 001, 002 & 003

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTIC			LIMITATIONS	MONITORING REQUIREMENTS			
8	kg/day	(lbs/day)	Other Units	(Specify)	Measurement	Sample	
№0utfall 001	Daily Avg	Daily Max	Daily Avg	Daily Max	Frequency	Type	
TFlow M ³ /Day (MGD)	-	-	-	-	Measure during	monitoring	
Suspended Solids	-	-	40 mg/l	62.mg/l	Monthly Technology	24 hour composite	
—Lead		-	1.0 mg/l	2.0 mg/l	Monthly	24 hour composite	
Nickel	-	-	-	2.0 mg/l	Monthly	24 hour composite	
Zinc	-	-	1.0 mg/l	2.0 mg/l	Monthly	24 hour composite	
Outfall 002							
Flow M3/Day (MGD)	-	-	-	-	Measure during	monitoring	
Suspended Solids	-	-	-	-	Monthly	24 hour composite	
Oil & Grease	-	-	-	-	Monthly	Grab	

For the purpose of this permit, discharge 002 is limited solely to non-contact cooling water free from process and other waste discharges. In the event that the permittee shall require the use of water treatment additives, this permit must be modified in accordance with Part II.

Outfall 003

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Outfall 003 is limited to storm water only. No process or non-contact cooling water discharge shall be permitted. No monitoring is required.

The pH shall not be less than 6.0 nor greater than 9.0 and shall be monitored monthly, grab samples.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at a point representative of the discharge but prior to entry into the Municipal storm sewer system.

Permit No. IL 0002411

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (FINAL)

2. During the period beginning May 1, 1974 and lasting until the expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 001, 002 & 003

Such discharges shall be limited and monitored by the permittee as specified below:

0	EFFLUENT CHARACTERISTIC	1 (4.		LIMITATIONS	(0	MONITORING REQUIREMENTS			
œ		kg/day	(lbs/day)	Other Units	(Specify)	Measurement	Sample		
α	Outfalls 001 & 002	Daily Avg	Daily Max	Daily Avg	Daily Max	Frequency	Type		
4	Flow M ³ /Day (MGD)	-	-	_	-	Measure during	monitoring		
_	Suspended Solids	-	-	-	-	Monthly	24 hour composite		
	Oil & Grease	-	-	-	-	Monthly	Grab		

For the purpose of this permit, these discharges are limited solely to non-contact cooling water free from process and other waste discharges. In the event that the permittee shall require the use of water treatment additives, this permit must be modified in accordance with Part II.

<u>Outfall 003</u>

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Outfall 003 is limited to storm water only. No process or non-contact cooling water discharge shall be permitted. No monitoring is required.

Intake water shall be monitored for suspended solids and oil & grease for comparison with the discharge. Monitoring frequency is monthly - grab sample.

The pH shall not be less than 6.0 nor greater than 9.0 and shall be monitored monthly, grab sample.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at a point representative of the discharge but prior to entry into the Municipal storm sewer system.

PART I

Page 4 of 13

Permit No. IL 0002411

B. MONITORING AND REPORTING

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.

2. Reporting

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Monitoring results obtained during the previous three months shall be summarized and reported on a Discharge Monitoring Report Form (EPA No. 3320-1), postmarked no later than the 28th day of the month following the completed reporting period. The first report is due on April 28, 1974. Duplicate signed copies of these, and all other reports required herein, shall be submitted to the Regional Administrator and the State at the following addresses:

U. S. Environmental Protection Agency Region V, Enforcement Division ATTN: Chief, Compliance Section 1 North Wacker Drive Chicago, Illinois 60606

Environmental Protection Agency State of Illinois Division of Water Pollution Control 2200 Churchill Road Springfield, Illinois 62706

PART I

Page 5 of 13

Permit No. IL 0002411

3. Definitions

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- a. "Daily Average" Discharge
 - 1. Weight Basis The "daily average" discharge means the total discharge by weight during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of the measured daily discharges by weight divided by the number of days during the calendar month when the measurements were made.
 - 2. Concentration Basis The "daily average" concentration means the arithmetic average (weighted by flow value) of all the daily determinations of concentration made during a calendar month. Daily determinations of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the daily determination of concentration shall be the arithmetic average (weighted by flow value) of all the samples collected during the calendar day.
- b. "Daily Maximum" Discharge
 - 1. Weight Basis the "daily maximum" discharge means the total discharge by weight during any calendar day.
 - 2. <u>Concentration Basis</u> the "daily maximum" concentration means the gaily determination of concentration for any calendar day.

PART I

Page 6 of 13

Permit No. IL 0002411

4. Test Procedures

Test procedures for the analysis of pollutants shall conform to regulations published pursuant to Section 304(g) of the Act, under which such procedures may be required.

5. Recording of Results

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For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- The exact place, date, and time of sampling;
- b. The dates the analyses were performed;
- c. The person(s) who performed the analyses;
- d. The analytical techniques or methods used; and
- e. The results of all required analyses.

6. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report From (EPA No. 3320-1). Such increased frequency shall also be indicated.

7. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained for a minimum of three (3) years, or longer if requested by the Regional Administrator or the State water pollution control agency.

PART I

Page 7 of 13

Permit No. IL 0002411

C. SCHEDULE OF COMPLIANCE

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 The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule:

(1) Commencement of construction - Already started

(2) Report of progress - April 1, 1974

(3) Attain operational level by - April 30, 1974

2. No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncomplicance. In the latter case, the notice shall include the cause of nonlatter case, any remedial actions taken, and the probability of meeting the next scheduled requirements.

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Permit No. IL 0002411

PART II

A. MANAGEMENT REQUIREMENTS

1. Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, production increases, or process modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new NPDES application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the permit issuing authority of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

2. Noncompliance Notification

If, for any reason, the permittee does not comply with or will be unable to comply with any daily maximum effluent limitation specified in this permit, the permittee shall provide the Regional Administrator and the State with the following information, in writing, within five (5) days of becoming aware of such condition:

- a. A description of the discharge and cause of noncompliance; and
- b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

3. <u>Facilities Operation</u>

The permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.

PART II

Page 9 of 13

Permit Nc. IL 0002411

4. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to navigable waters resulting from noncompliance with any effluent limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying disharge.

5. Bypassing

Any diversion from or bypass of facilities necessary to maintain compliance with the terms and conditions of this permit is prohibited, except (i) where unavoidable to prevent loss of life or severe property damage, or (ii) where excessive storm drainage or runoff would damage any facilities necessary for compliance with the effluent limitations and prohibitions of this permit. The permittee shall promptly notify the Regional Administrator and the State in writing of each such diversion or bypass.

6. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed from or resulting from treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering navigable waters.

7. Power Failures

In order to maintain compliance with the effluent limitations and prohibitions of this permit, the permittee shall either:

- a. In accordance with the Schedule of Compliance contained in Part I, provide an alternative power source sufficient to operate the wastewater control facilities;
- or, if no date for implementation appears in Part I,
- b. Halt, reduce or otherwise control production and/or all discharges upon the reduction, loss, or failure of one or more of the primary sources of power to the wastewater control facilities.

PART II

Page 10 of 13

Permit No. IL 0002411

B. RESPONSIBILITIES

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1. Right of Entry

The permittee shall allow the head of the State water pollution control agency, the Regional Administrator, and/or their authorized representatives, upon the presentation of credentials:

- a. To enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and
- b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any discharge of pollutants.

2. Transfer of Ownership or Control

In the event of any changes in control or ownership of facilities from which the authorized discharges emanate, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Regional Administrator and the State water pollution control agency.

3. Availability of Reports

Except for data determined to be confidential under Section 308 of the Act, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the State water pollution control agency and the Regional Administrator. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Act.

4. Permit Modification

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

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FINAL PETITIT AS ISSUED

PART II

Page 110f 13

Permit No. IL 0002411

- a. Violation of any terms or conditions of this permit;
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

5. Toxic Pollutants

Notwithstanding Part II, B-4 above, if a toxic effluent standard or prohibition (i cluding any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified.

6. Civil and Criminal Liability

Except as provided in permit conditions on "Bypassing" (Part II, A-5) and "Power Failures" (Part II, A-7), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

7. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act.

8. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Act.

· PART II

Page 12 of 13

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Permit No. IL 0002411

9. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

10. Severability

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The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

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Permit No. IL 0002411

PART III

OTHER REQUIREMENTS

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Additional Reporting of Monitoring to Illinois Environmental Protection Agency

Monitoring results obtained during the previous one month shall be summarized and reported on a Discharge Monitoring Report Form (EPA No. 3320-1), postmarked no later than the 15th day of the month following the completed reporting period. The first monthly report is due on April 15, 1974. The signed reports required herein, shall be submitted monthly to the State at the following address:

Environmental Protection Agency State of Illinois 2200 Churchill Road Springfield, Illinois 62706